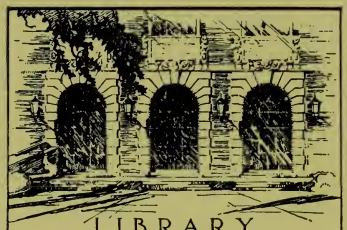

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CALENDAR FOR YEAR 1917-1918

1917		
Sept. 10-12	Monday-Wednesday	Registration days
Sept. 13	Thursday	First semester begins
Nov. 29-Dec. 2	Thursday-Sunday	Thanksgiving recess
Dec. 19	Wednesday	Sophomore and Junior orations due
Dec. 20	Thursday	Christmas recess begins
1918		
Jan. 3	Thursday	Recitations resumed
Jan. 17	Thursday	Day of prayer for colleges
Jan. 21-25	Monday-Friday	Registration days for second semester
Jan. 28-Feb. 1	Monday-Friday	Final examinations, first semester
Feb. 4	Monday	Second semester begins
Mar. 14	Thursday, 8 P. M.	Oratorical contest
Mar. 20-21	Wednesday-Thursday	Basket ball tournament
Mar. 27-Apr. 2	Wednesday-Tuesday	Spring recess
Apr. 3	Wednesday.	Recitations resumed
May 30	Thursday	Memorial Day
June 10-14	Monday-Friday	Final examinations, second semester
June 14-20	Friday-Thursday	Commencement Week

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James Mills, M. S., M. D., Janesville
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Wardner Williams, Ph. D., Mus. D. Pueblo, Colo.
Otto F. Seeger Milwaukee
Justin H. Burdick, M. D., Milton

Office expires in 1918

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William B. Maxson, Milton
George R. Boss, Milton
J. Nelson Humphrey, M. A., Whitewater
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James H. Coon, Milton
Truman A. Saunders, Milton
Geo. W. Post, M. A., M. D., Chicago, Ill.

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FACULTY

WILLIAM CLIFTON DALAND, M. A., D. D., President, Professor of the English Language and Biblical Literature.

B. A., Brooklyn Polytechnic Institute, 1879; Student, Union Theological Seminary, New York City, 1883-'86; M. A., Alfred University, 1887; D. D., Milton College, 1896; D. D., Alfred University, 1903; Organist and Teacher of Music, Elizabeth, N. J., and Brooklyn, N. Y., 1874-'86; Pastor, Leonardsville, N. Y., 1886-'91; Pastor, Westerly, R. I., 1891-'96; Pastor, London, England, 1896-1900; Pastor, Leonardsville, N. Y., 1900-'02; President, Milton College since 1902. Published The Song of Songs, translated from the Hebrew, with notes, 1st edition, 1887; 2nd edition, 1888.

ALBERT WHITFORD, M. A., Professor Emeritus of Mathematics and Astronomy.

WALTER DAVIS THOMAS, M. A., Professor of Greek Language and Literature.

Graduate, Union Academy, Shiloh, N. J., 1873; Teacher Public Schools, 1873-'84; B. A., Milton College, 1884; M. A., Milton College, 1887; Professor, Greek Language and Literature, Milton College, since 1884; Graduate Student, Special work in Greek, Summer Term, University of Chicago, 1897; Student in Greek and History, Summer Sessions of University of Wisconsin, 1901 and 1903.

ALFRED EDWARD WHITFORD, M. A., Professor of Mathematics and Physics.

B. A., Milton College, 1896; M. A., Milton College, 1901; M. A., University of Wisconsin, 1911; Assistant Principal, Waupun High School, Waupun, Wis., 1896-'97; Principal, Milton Public School, 1897-'99; B. A., University of Chicago, 1900; Graduate student in Physics, University of Chicago, 1900-'01; Professor of Physics and Assistant in Mathematics, Milton College, 1901-'10; Assistant in Mathematics, University of Wisconsin, 1910-'11; Professor of Mathematics and Physics, Milton College, since 1911.

Note—With the exception of the President, professors are named in the order of their appointment.

ALBERT ROGERS CRANDALL, M. A., Ph. D., Professor of Natural History and Physiology.

B. A., Milton College, 1873; M. A., Milton College, 1876; Ph. D., Milton College, 1885. Entered the Academic Department of Alfred University in 1858. His studies were interrupted by the Civil War. After nearly two years and a half of service in two enlistments, he was mustered out with the rank of First Lieutenant. After studying three years at Milton College and teaching one year as principal of Big Foot Academy, Walworth, Wis., was special student in the Museum of Comparative Zoology at Harvard University during five years, taking special studies in geology, paleontology, and zoology with botanical studies at the Botanical Garden, and also art studies for one year at the Boston Lowell Institute Evening School. During these years the long summer vacations were spent in field studies as a collector for the Museum of Comparative Zoology. These studies were extended over parts of Rhode Island, Massachusetts, and Maine; to the Ottoway region in Canada; to western New York, and along the Appalachian belt from the Catskills to Northern Georgia and Alabama. Appointed Assistant of Prof. N. S. Shaler of Harvard University in the work of the Kentucky Geological Survey, 1873. Instructor in the Department of Natural History of the Agricultural and Mechanical College of Lexington, Kentucky, 1873-'74. Three years later was appointed Professor. Instructor in the Summer School of Geology organized by Professor Shaler at Cumberland Gap, Kentucky and Virginia, in 1875. Continued work on the Geological Survey in conjunction with his duties as professor of Natural History until 1893. Professor of Natural History in Alfred University, 1896-1903. Professor, Natural History, Milton College since 1903. Formerly fellow of the American Association for the Advancement of Science and of the Geological Society of America. Member of the Advisory Council on Religious Congresses in connection with the World's Columbian Exposition, Chicago, 1893. Among his published works are reports on the Geology and Botany of Eastern Kentucky, Vols. 1, 2, and 4, second series, and Vol. C of later reports, besides many papers and addresses.

DAVID NELSON INGLIS, M. A., Professor of Romance Languages.

B. A., Milton College, 1905; M. A., University of Wisconsin, 1908; Principal of Graded School, Marquette, Wisconsin, 1905-'07; Student, University of Wisconsin, 1907-'08; Assistant in Romance Languages, University of Wisconsin, 1908-'10. Professor of Romance Languages, Milton College, since 1910.

LEMAN H. STRINGER, B. A., Professor of Public Speaking, Instructor in Voice and Physical Training.

B. A., Milton College, 1909; Teacher, West Allis High School, 1909-'12; Professor of Public Speaking, Milton College, since 1912.

HARRIS MERRILL BARBOUR, M. A., Professor of Philosophy and History.

B. A., Brown University, 1906; B. D., Newton Theological Institution, 1909; Minister, Arlington Heights, Mass., 1909-'11; Graduate Student and Assistant in Philosophy, Brown University, 1911-'13; M. A., Brown University, 1913; Professor of Philosophy and History, Milton College, since 1913.

*JOHN NORTON DALAND, M. A., Professor of Latin Language and Literature.

B. A, Milton College, 1913; M. A., University of Wisconsin, 1914. Professor of Latin Language and Literature, Milton College, 1914.

PAUL CANFIELD SAUNDERS, B. S., Professor of Chemistry.

B. S., Alfred University, 1914; Assistant in Chemistry, Alfred University, 1913-'14; Instructor in the Department of Science, Connellsville, (Pa.) High School, 1914-'16; Graduate student in Chemistry, Summer Session of Columbia University, 1916; Professor of Chemistry, Milton College, since 1916.

Mrs. ANNA SOPHIA CRANDALL, M. A., Instructor in German Language and Literature.

B. A., Milton College, 1881; M. A., Milton College, 1885; Instructor, German Language and Literature, Milton College, 1881-'82; Student in Hebrew Language and Literature at Morgan Park Baptist Theological Seminary, 1882-'86; Studied German in Berlin, Germany, 1899-1900; Instructor, German Language and Literature, Milton College, since 1900.

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*On Leave of Absence.

Miss MABEL MAXSON, M. A., Instructor in English Literature.

B. A., Milton College, 1911; M. A., University of Wisconsin, 1912; Instructor in English Literature, Milton College, since 1912.

Miss ADA ELIZABETH CRANDALL, B. A., Instructor in Latin and English in the Academy of Milton College.

B. A., Milton College, 1912; Instructor in English and French, Salem College, 1912-1914; Instructor in Latin and English, Academy of Milton College, since 1914.

MISS MARGARET EVELINA LAMONT, B. A., Instructor in Latin.

B. A., Alfred University, 1914; graduate student Alfred University, 1914-1915; Instructor in Latin, Milton College, since 1915.

MISS ALBERTA CRANDALL, Instructor in Piano Playing.

Student, Milton College and School of Music, 1893-'98; Certificate Pianoforte Course, 1908; Student and Teacher of Piano, Alfred University 1898-1901; Special student under Dr. W. S. Matthews of Chicago, 1901; Student, New England Conservatory of Music, Boston, Massachusetts, 1902-'03; Student, New England Conservatory of Music, pupil of Carl Baermann, 1907-'08. Instructor in Piano Playing, Theory, and History of Music, Milton College, since 1903.

Miss NELLIE BENTLEY, Instructor in Violin Playing.

Miss MABEL MAXSON, M. A., Librarian.

Prof. A. E. WHITFORD, M. A., Registrar.

GENERAL INFORMATION

Milton College is situated in the village of Milton, Rock County, Wisconsin, on the Prairie du Chien division of the Chicago, Milwaukee and St. Paul Railway, and at the Junction of this division with the Mineral Point branch, which unites at Janesville with two other lines of that railroad going to Chicago. One mile west of the village, the Prairie du Chien division crosses at Milton Junction the Janesville, Watertown and Fond du Lac line of the Chicago and Northwestern Railway. By these great thoroughfares, direct access is secured several times a day to the principal parts of the Northwest.

The institution was first opened as a Select School in the village of Milton in the vear 1844. In the year 1848 it was incorporated as Du Lac Academy, which in 1854 was reorganized under the name of Milton Academy. In April, 1867, by an act of the State Legislature, it was created Milton College, under which name and style it has since been carried on as a college of liberal arts, with a preparatory department, now called the Academy of Milton College, and a School of Music.

The moral and religious influences of the community about the institution are unsurpassed. The village has always been free from the haunts of idleness and dissipation, and is still one of the safest in these respects where young men and women may attend school. Its inhabitants have had long experience in association with students, and have from the beginning exercised the most kindly feelings and thoughtfulness in assisting them in their work, and in encouraging them to acquire a thorough and liberal education.

AIMS OF THE INSTITUTION

Milton College has won its favorable reputation and maintained its usefulness by the steady and earnest pursuit of the following ideals:—

1. It has been from the first co-educational, offering all its advantages equally to men and women.

2. Encouragement and opportunities of self-support are always given as far as possible. It is possible for industrious students to earn enough to help them pay a large part of their expenses. Nevertheless it is unwise for a new student to depend upon obtaining work at once. It is desirable that such coming for the first time have sufficient funds to pay his expenses for at least one semester, or one half the college year.

3. While students are admitted at any time, and may choose any studies offered either in the academy or the college, which they are qualified to pursue, they are nevertheless advised to select definite courses of study and pursue the same consistently. They are also advised to enter at the beginning of the college year and continue their studies through one year at least. This is especially urged upon students who have to interrupt their studies in order to earn money for their expenses. It is better to spend a year in earning money and then attend college for a year than to spend a part of each year in study and another part in earning money.

4. From the first, Milton College has aimed to secure thoroughness in all the student's work and sound preparation at every stage of education as a basis for further advancement.

5. The system of discipline enforced has as its aim the following ends: First, to secure excellent proficiency of the student in his classes; second, to aid him in the formation of those habits of life which will insure success, and to develop those traits of character which will render him self-reliant, courteous, law-

abiding, and upright. The sentiments of personal honor and goodwill are called into action in securing good order among the students; and appeals are made to one's sense of duty in supporting rightful authority and in maintaining the high character of the institution.

6. While the teachers try by precept and example to inculcate the principles of the Christian religion, no sectarian tenets are taught. Daily chapel exercises are held; regular weekly prayer meetings are sustained by the students themselves, who are encouraged to attend divine services of some church of their choice; any religious truth, not of a denominational character, may be explained in the ordinary recitations and in the devotional exercises, when occasion seems to demand such explanations.

GOVERNMENT OF THE STUDENTS

I. Terms of Admission

1. No person is admitted to a class until matriculated as a student and duly registered at the office for the study in question. Days are appointed for this purpose at the beginning of each semester, although students may, if necessary, be admitted at other times.

2. Admission to the Freshman class of the College is in accordance with the entrance requirements as stated on pages 21 and 22.

3. Admission to the classes of the Academy is in accordance with the standing of the student, determined either by examination or by credited standings from other schools.

4. Students in the School of Music are subject to the judgment of the instructors as to their qualifications.

5. Students in the School of Music and those pursuing special courses must conform as well as others to the general rules and regulations.

6. Applicants for admission from other institutions must present certificates of dismission in good standing when required to do so.

II. General Government

1. The general oversight of the deportment and studies of the students is assigned by the Trustees of the college to the Faculty, of which the President is the executive officer. An appeal from any decision or arrangement of his, as well as any request for any special or general favor, may be made through him directly to the Faculty.

2. Students matriculating and taking up studies in any courses are regarded as pledging themselves to obey the following rules and regulations, and any others that may be made by the Faculty or Trustees.

III. Regulations Concerning Studies

1. All charges for tuition and other fees must be paid in advance. No deduction in these will be made for an absence of less than half a semester. No student will be admitted to any class until his fees for the semester have been paid or until satisfactory arrangements have been made with the treasurer for payment at a later time.

2. After a student is admitted and his studies are registered at the office, no change in these will be allowed without the permission of the President.

3. Any student who desires to pursue a study outside of a class and receive credit therefor must first obtain special permission from the faculty. Such work must be carried on under the supervision of the professor in charge of the department in which the study is pursued. The fee for such supervision is noted in the table of fees under "Miscellaneous Information," and must be paid with the other fees at the office.

4. Regular study and punctual attendance upon all recitations and prescribed exercises are required of all students. All students are expected to attend the daily chapel exercises. Any college student who during any semester is absent from chapel exercises to the number of one in ten of the whole number will be required to take two semester-hours' additional work in his course toward his degree. Any academy student similarly absent will be required to do additional work toward graduation to the amount of one half unit.

5. Professors and instructors may deduct one unit on a scale of one hundred from a student's standing for a semester in any study for each unexcused absence from a class exercise in that study. All applications for excuses for absence from recitations shall be made to the President, in advance if possible, and such excuses when so obtained shall be filed with the proper instructor. Blanks for this purpose are provided at the office.

IV. Student Activities and General Deportment

1. At the beginning of each college year there is formed a Student Council, consisting of ten representatives, one from each college class, one from each of the four literary societies, and one from each of the two Christian Associations. This council may be called by the President of the college when he desires the co-operation or advice of the student body in regard to any matter of policy or of discipline. These rules and regulations are either such as have been in force for many years or else such as have been made with the co-operation of the student council.

2. To assist in the regulation of student activities each college class, at the beginning of the year, chooses a class adviser from the members of the faculty. The class adviser represents the faculty in dealing with the class and is the advocate of the class in dealing with the faculty.

3. All public meetings, entertainments, or social gatherings of the students are held subject to the approval of the President. But to assist in the regulation of the number of public college functions, the President's approval must be obtained before any public meeting is announced or any date set for the same. A bulletin of approved college functions will be posted at the college every Friday morning for the following week.

4. All social college functions must have chaperons approved by the faculty. All evening meetings of academy classes or all meetings of these classes for social purposes must have chaperons approved by the faculty. The chaperonage of evening or social meetings of college classes is left to the discretion of the class adviser.

5. General college functions should not be held later than half past ten o'clock.

6. Students who do not live with parents or guardians and who have occasion to leave the village should obtain permission to do so from the President.

7. Profane and obscene language at all times and gambling in all forms are forbidden.

8. Students convicted of using intoxicating liquors, except by order of a physician, shall forfeit their standing in the institution.

9. Students are prohibited from using tobacco on the grounds or in the buildings of the institution.

V. Rules Governing Goodrich Hall

1. The Hall will be closed at ten o'clock in the evening.

2. Young ladies who are obliged for any reason to be out in the evening are expected to make an arrangement for their absence with the preceptress and must not remain out later than ten o'clock unless such arrangement is perfectly satisfactory to the preceptress.

3. The young ladies are expected to refrain as far as possible from visiting each other in their rooms during the hours devoted to college recitations. They are asked to discourage visits during these hours.

4. Gentlemen visitors are not allowed at all in the young ladies' rooms, but may be received in the reception room at proper times, subject to any arrangement the preceptress may see fit to make. This regulation is not intended to apply to parents or guardians nor in case of parties given subject to the approval of the preceptress.

5. Parties or other entertainments in the Hall may be given only subject to the approval of the preceptress.

VI. Rules Governing Athletics

1. All athletic affairs are under the supervision of the Faculty Committee on Supervision of Athletics, which is appointed by the Trustees and acts in consultation with the President of the college. The immediate control of the Gymnasium is assigned to the Physical Director.

WHITFORD MEMORIAL HALL

2. No games or sports of any kind are permitted on any part of the campus or in the gymnasium on either the Seventh or First days of the week, except that the gymnasium may be used for public games on Saturday evening, but not on Friday evening.

3. No playing of any kind or athletic practice of any kind shall be carried on in the vicinity of the buildings in which classes are held between 8 a. m. and 12:00 noon, or between 1:00 and 4 p. m. But the tennis courts may be used from noon till dusk, although not from 8 a. m. to 12:00.

4. The gymnasium is regularly open after 3:00 p. m. each school day and is closed not later than 7 p. m.

5. In arranging schedules of games the manager of every team shall consult with the chairman of the Faculty Committee on Supervision of Athletics.

6. A team may not play more than one regularly scheduled game per week, except in the case of a single trip to two or three institutions situated near together, and as far as possible games away from home should alternate with games at home.

7. Students pursuing regular studies to the amount of ten recitation periods a week in either college or academy are eligible to represent the institution in athletic contests, provided they have been registered at the beginning of the semester during which the contests are held; except that no student is allowed to play on any team who has done unsatisfactory work for two consecutive weeks. Further, no student who is pursuing studies in another institution that has an athletic team is allowed to play on a similar team representing Milton College.

VII. Requirements and Regulations Concerning Gymnasium Work

1. Gymnasium classes are to begin their work on or about October 1 each year and continue while college is in session until

April 1. This shall be considered a year's work. The remainder of the year is to be given over to tennis, baseball, track athletics and the like.

2. Two years of gymnasium work shall be required of all students during their college course, unless they are exempted therefrom as hereinafter provided.

3. No student shall be exempt from gymnasium work unless by advice of the Medical Director or upon the certificate of an employer showing that the work in the gymnasium interferes with the earning of a livelihood. Reasons for exemption in the latter case must be presented to the Faculty with the written certificate in question.

4. No student shall receive credit for a semester's work in the gymnasium unless he attends seventy (70) per cent of the class periods for that semester.

5. A year's work shall consist of two periods per week from Oct. 1 to Apr. 1. Men's classes are usually held on Mondays and Wednesdays; Women's classes, on Tuesdays and Thursdays.

6. Gymnasium costume for women shall consist of middy blouses and full bloomers. All suits shall be of uniform pattern, color, and material; they shall all be approved by some person to be designated by the Committee on Supervision of Athletics.

7. No student shall be allowed to wear gymnasium costume outside the gymnasium except as permitted by the Physical Director.

8. Rules concerning the use of the Gymnasium and behavior in the building are posted in the building itself and must be obeyed.

VIII. Rules Respecting Examinations

1. Besides the final examination held at the close of each semester, frequent written tests are held during the semester; from an average of the student's standings in these examinations

as well as from his standings in daily recitations the final standings are determined.

2. No student whose absence from recitations or other exercises in a given study reaches a total of ten per cent of the whole number of class exercises in that study in a given semester will be allowed to take his final examination in that study except by special permission of the faculty, which permission shall be obtained by petition of the student so absent. In computing such percentage excused as well as unexcused absences shall be counted, and an absence on the first day of a semester or the last day before a recess or the first day after a recess shall be counted as two absences.

3. College seniors whose class standings are above ninety per cent during the second semester may be excused from taking final examinations in June.

4. In order to receive credit for any study a student must reach an average standing of at least seventy on a scale of one hundred. A student whose final standing in any college study is sixty-five per cent or more, but below the passing grade, is conditioned in that study and may at an appointed time within a year take an examination to remove the condition.

5. A student failing without excuse to take a written test in any class will not be allowed to continue in that class until he has complied with his duty, and a student failing to take the final examination in any study will not be allowed to register for a subsequent semester unless by special permission of the Faculty he arranges to take the examination in question.

6. For every special final examination—that is, for every final examination held for the benefit of a single student—a fee of one dollar is charged. See table of Fees.

IX. Arrangements Respecting Graduation

1. A student completing satisfactorily the studies in any one of the courses of the academy is graduated in that course, and

receives a diploma certifying the fact.

2. Students having completed the studies in any one of the courses in music, (pianoforte, violin, viola, violoncello, vocal music, voice culture, or harmony) together with the studies in any one of the courses of the academy or their equivalent, will be entitled to receive certificates of graduation in such course.

3. Students who are graduated from the college receive the degree of Bachelor of Arts.

X. Use of the Library

1. The oversight and control of the Library of Milton College and of all arrangements in connection with the use of the Library and Reading Room is assigned to the Librarian, who is appointed by the Trustees and acts in consultation with the President of the college.

2. Special regulations concerning the use of the Library are posted in the Library itself. See also in this catalogue page 67.

ENTRANCE REQUIREMENTS

Every student who enters the Freshman class must offer fifteen (15) entrance units. The term unit means the equivalent of five recitations a week for one year in one branch or closely allied branches of study. These shall be as follows:

Mathematics (algebra 1, geometry 1)	2 units
English	3 "
History (ancient history 1, or medieval and modern history 1, or United States history 1, or English history 1)	1 "
Science (botany 1, or botany and physical geography 1, or chemistry 1, or physics 1, or physiology or physical geography 1, or zoology 1)	1 "
Language (Latin 4, or two languages each 2)	4 "
	11 units

Any four units from the following:

One language	1 or 2 units
English	1 or 2 "
History	1, 2, or 3 "
Civics and economics	1 "
Mathematics	1 "
Science	1, 2, or 3 "
Optional subjects	1 "

If one unit only of language is offered in addition to the language included in the first list of eleven units, it must not be first year work in any language.

Students who can offer only two units of language, but who have enough other credits to make up the full fifteen (15) units, will be admitted to the freshman class, provided that they take a beginning course in another language, for which credit will be given on their free electives in the college course. Special beginning courses in German and in Latin are offered.

The description of courses under "Studies in the Academy" may furnish to those who are planning their high school courses suggestions as to what Milton College considers good preparation for college.

Admission

Students who are graduates of any high school or academy which is on the accredited list of preparatory schools published by the University of Wisconsin will be admitted to the college upon the presentation of a certificate signed by the principal showing the satisfactory completion of the fifteen (15) required units as shown under "Entrance Requirements." Other students desiring to enter the college will furnish certificates of work done in their respective preparatory schools, and may be called upon to submit to entrance examinations in part or in all of the subjects offered for entrance from the school in question. When such students are conditioned in one or more subjects, they are allowed to make up their conditions in the Academy of Milton College. Blank forms for use in making out certificates may be obtained from the Registrar of the College.

The statements concerning work required for admission to college are to be interpreted in the light of the general principle that what the college seeks in those who come as freshmen is ability to do well the work of the college course. The statements set forth what in general the faculty believes to be the preparation that is most likely to secure this ability. But a preparatory course well and thoroughly pursued by a student of ability, even though that course may lack certain of these requirements, is likely to insure better work in college than a

preparatory course complete in every respect, but pursued superficially and carelessly by an indifferent student. Nevertheless, the foregoing statements are those that best express the judgment of the faculty of Milton College.

Additional Test

In the eleven specifically required units mentioned are three units of English. This represents what the faculty thinks desirable. But students may be admitted with two units of English, provided that their course is otherwise complete, comprising fifteen units.

Since 1914, however, an additional test has been imposed upon students who offer themselves for entrance. This test is with a view to discover their ability to think consecutively and clearly and to express their thoughts in correct and appropriate language. Those who satisfactorily pass this test are admitted to the regular freshman work in English. Those who are not successful do not enter the freshman English class, but are assigned to a preparatory class in English for one year. For the work of this class they receive no credit on their college course. But they have to complete this preparatory course before they take the regular freshman English work. Hence it is impossible for a student who fails in this test to finish all of his freshman work in a year from the time he enters college.

General Statement

A course of study in the college covers four years and includes one hundred and twenty-eight semester-hours or credits. The semester-hour is equal to one hour of recitation or lecture per week for one semester. Two hours of laboratory work receive credit as one semester-hour. Students are expected to take sixteen (16) hours per week in recitations, lectures, and laboratory work, making thirty-two (32) semester-hours per year. No student will be permitted to receive toward graduation credit of more than eighteen (18) semester-hours in one semester ex-

cept by permission of the faculty obtained in advance. Such permission will not be granted in any year to a student whose average standing during the preceding year has not reached ninety per cent.

Required Work

The required work by years is as follows:

Freshman year		
	English 3 hours per week	6 s.-h.
	Mathematics 3 hours per week	6 s.-h.
	Two languages each 5 hours per w'k	20 s.-h.
		32
Sophomore Year		
	History 3 hours per week	6 s.-h.
	Psychology 3 hours per week	6 s.-h.
	Natural science 5 hours per week	10 s.-h.
	Elective	10 s.-h.
		32
Junior Year		
	Logic and philosophy 3 hours per w'k	6 s.-h.
	*Public speaking 2 hours per week	4 s.-h.
	Elective 11 hours per week	22 s.-h.
		32
Senior Year		
	Ethics 2 hours per week	4 s.-h.
	**History of Education	4 s.-h.
	**Pedagogy	3 s.-h.
	Elective	21 s.-h.
		32
Total for the course		128

*Public speaking may be taken in the sophomore year in addition to the other work; this is advised if the student can arrange time for it then.

**Required of those who wish to teach. Other students take twenty-eight (28) semester hours of elective subjects instead of twenty-one (21).

Of the two languages pursued in the freshman year one must be a continuation of a language offered for entrance. The student may take his natural science in the freshman year and then defer the second language till the sophomore year. This is recommended to those taking science as a major. The second language may be freely chosen, but the first year's work in any language will not be accepted as fulfilling the requirement of the second language until the second year's work in that language is taken.

Grade Point System

In addition to the requirement of one hundred and twenty-eight semester-hours for a course, by action of the faculty on April 2, 1917 the candidate for graduation must secure at least one hundred and twenty-eight grade points. The grade points are awarded as follows:

For grade A, three points for each semester-hour.

For grade B, two points for each semester-hour.

For grade C, one point for each semester-hour.

For grade D, credit but no points.

The maximum number of points that can be secured in a course is 384; the minimum must be 128. It is evident that an average grade of C is required for graduation. A student who falls behind in the required number of points is ineligible for graduation.

The grade point system will be applied to the work of all students in Milton College beginning with the first semester of 1917-1918.

Grade A means excellent work and represents a standing of 93 to 100 per cent; grade B, good work, 85 to 92 per cent; grade C, fair work, 77 to 84 per cent; grade D, poor work, 70 to 76 per cent. Grade D is the passing grade for credit.

Major Study

The studies of the college courses are divided into three groups as follows:

I. Language and Literature.

II. History, Social Science and Philosophy.

III. Natural Science and Mathematics.

At the beginning of the sophomore year, a candidate for a baccalaureate degree must, with the advice of the President, choose a major subject from one of the above groups and a minor subject from another department of the same group; provided, however, that a suitable language may be chosen as a minor subject in connection with any major and that mathematics may be chosen as a major subject in connection with a minor in either group I. or group II. He will be required to do not less than twenty (20) semester-hours in his major subject and not less than ten (10) semester-hours in his minor. Studies to be counted toward work in the major and minor subjects are allowed only according to the judgment of the professor in charge of the work in question. The electives of the sophomore year should be devoted to the major subject.

Electives for the Sophomore Year

I	II	III
Latin	Economics	Conics and Surveying
Greek	History of Education	Analytics
French	Advanced Civics	Biology
Spanish	English Bible	Chemistry
German	Educational Psychology	Physics
Sophomore Composition		Mechanical Drawing
Anglo-Saxon and Middle English		
English Literature		

Electives for the Junior and Senior Years

I	II	III
Latin	History	Conics and Surveying
Greek	Economics	Analytics
French	Advanced Civics	Calculus
Spanish	History of Philosophy	Astronomy
German	History of Education	Biology
Old and Middle High German	Pedagogy	Zoology
Old Saxon	English Bible	Botany
Gothic		Physiology
Anglo-Saxon		Geology
Middle English, etc.		Chemistry
English Literature, etc.		Physics

Degrees

All graduates from Milton College receive the degree of Bachelor of Arts.

Orations

Each student in the sophomore and junior year is required to produce an oration. These orations must be finished and handed to the Professor of Public Speaking before the Christmas recess. They must be delivered either in the annual contest of the Oratorical Association of the college, or in one of the preliminary contests, or in some public exercise arranged by the faculty and held on a date earlier than that of the annual contest.

Theses

A thesis on some subject connected with the major study is required of every student for graduation for which four (4) semester-hours' credit is given in the senior year. Theses must be typewritten and furnished for the college library by the Friday before Commencement. Diplomas will be withheld from students that fail to comply with this requirement.

Teachers' Certificates

According to recent legislation all applications by college graduates for life certificates to teach in the state of Wisconsin are to be considered solely upon their merits. Any graduate desiring to obtain such a certificate must file an application setting forth the studies he has pursued, duly certified by the college from which he is graduated. He may then be required to take an examination in certain subjects. If the application is satisfactory or if the examination is duly passed, a certificate will be granted after two years' successful experience in teaching and the maintenance of a good moral character. At least twelve (12) semester hours' work in Psychology and Education are required, of which nine (9) must be in the department of education.

DEPARTMENTS OF INSTRUCTION

English

1 Freshman English.

Lectures on English composition. Exercises in paragraph and theme writing, directed toward the formation of an effective prose style. Text-books: Linn's *Essentials of English Composition* and *Illustrative Examples of English Composition.* Required of all college students in the freshman year. *Three hours a week throughout the year.*

Note—The work in this course consists of the following parts:

a) Class exercises or lectures three times a week.

b) Short themes twice a week.

c) Weekly translations from a foreign language.

d) Longer bi-weekly themes based on the required readings.

e) Required readings: (1) A book of general reading and a standard novel, (2) Winchester's *Principles of Literary Criticism*, (3) Matthew Arnold's *Essays in Criticism*, selected.

2 Sophomore Composition.

Narrative composition. During the recitation hour the class pursues the study of the American short story. Compositions are required weekly or fortnightly. Elective. *Two hours a week throughout the year.*

3 Elementary Anglo-Saxon.

An elementary course with a view to the mastery of the grammar and the reading of normal West Saxon prose, especial attention being given to the derivation of words. Text-book, Cook's *First Book in Old English*, supplemented by selections from Bright's *Anglo-Saxon Reader*, according to the needs of the class. Required of those who take English as a major study. *Three hours a week in the first semester.*

4 Advanced Anglo-Saxon.

Further study of the grammar with especial attention to

difficult forms and to syntax. Study of poems with extensive cursory reading of early and late West Saxon prose. Text-book, Bright's *Anglo-Saxon Reader*, with references to Cook's Sievers' *Old English Grammar* and March's *Comparative Grammar of the Anglo-Saxon Language*. Open to those who have taken course 3. *Three hours a week in the second semester.*

5 Anglo-Saxon Dialects.

A study of the Northumbrian, Mercian, and Kentish dialects, with many of the most ancient remains of heroic poetry. Text-books: Kluge's *Angelsächsisches Lesebuch*, Sievers' *Angelsächsische Grammatik*, and Sweet's *Student's Dictionary of Anglo-Saxon*, with references to Kluge's *Geschichte der englischen Sprache*. Open to those who have taken courses 3 and 4. *Three hours a week in the first semester.*

6 Beowulf.

Study of the Anglo-Saxon text with reference to early Germanic life and customs. Text-book, Wyatt's *Beowulf*, with references to other works. Open to those who have taken courses 3 and 4. *Three hours a week in either semester, as classes may be arranged.*

7 Early Middle English.

A. D. 1066-1300. Homilies, *Later Saxon Chronicle*, and prose selections in the Midland dialect; *The Ormulum*, *Havelok the Dane*, and poetical selections in the Midland dialect; *The Ancren Riwle* and prose selections in the Southern dialect; poetical selections in the Southern dialect, Layamon's *Brut*, *The Owl and the Nightingale* and *King Horn*. The Midland dialect is made the basis of grammatical instruction, and especial attention is

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Courses 3 to 9 have special reference to the history and development of the language. It is recommended that those choosing English as a major, after taking course 3, pursue consistently either courses 7, 8, and 9 in order, or courses 4, 5, and 6 in order, or both together; or the courses in Anglo-Saxon Poetry may well be taken after those in Middle English. For Old Saxon, students of Anglo-Saxon will see under German courses.

given to Danish and Norman influences. Text-book: Emerson's *Middle English Reader*, with supplementary texts. Open to those who have taken course 3. *Three hours a week in the second semester.*

8 Later Middle English.

A. D. 1298-1400. Sir John Mandeville, Wiclif, John of Trevisa, Dan Michel of Northgate (*Ayenbite of Inwyt*), Robert of Gloucester, *Handlyng Synne*, Lawrence Minot, *Cursor Mundi*, Barbour (*The Bruce*), Langland, Gower, and Chaucer, with a closer study of dialects, including the Northern dialect. Text-books as in course 7. Open to those who have taken course 7. *Three hours a week in the first semester.*

9 Transition and Tudor English.

A. D. 1400-1579. Occleve, Lydgate, James I. of Scotland, Ballads, Dunbar, Douglas, Mallory, More, Tyndale, Ascham, Berners, etc., to Spenser. Text-book, Skeat's *Specimens of English Literature*, 1349-1579. Open to those who have taken course 3. *Three hours a week in the second semester.*

10 College Literature.

A general survey course of English literature. Textbooks: *Century Readings for a course in English Literature*, edited by J. W. Cunliffe, J. F. A. Pyre, and Karl Young, and *Century Outlines for a course in English Literature*, compiled by F. A. Pyre, T. H. Dickinson, and Karl Young. *Three hours a week throughout the year.*

11 Shakespeare.

The following plays are studied: First Semester: *Love's Labour's Lost*, *Henry V.*, *The Tempest*, *Midsummer Night's Dream*, *Romeo and Juliet*, *The Merchant of Venice*, *As You Like It.* Second Semester: *Twelfth Night*, *Hamlet*, *Othello*, *Macbeth*, *Antony and Cleopatra*, *Coriolanus*, *A Winter's Tale.* Text-book, *Shakespeare's Principal Plays*, edited by Brooke, Cunliffe, and MacCracken. *Three hours a week throughout the year.*

12 a Browning.

A careful study of the poet's life, followed by the reading and

interpretation of the most important of his poetical works. Text-book, The Globe Edition of Browning's works. *Two hours a week in the first semester.*

12 b Tennyson.

The study of Tennyson's development as a poet. Nearly all the poems are read in class. Text-book, The Globe Edition of Tennyson. *Two hours a week in the second semester.*

13 a The Romantic Movement.

A study of the movement in general, followed by particular study of the poetical works of Coleridge, Wordsworth, Byron, Shelley, and Keats. Text-book, Page's *British Poets of the Nineteenth Century. Three hours a week in the first semester.*

13 b The Victorian Era.

A continuation of 13 a. Study of the poetical works of Landor, Browning, Tennyson, Rossetti, Arnold, Morris, and Swinburne. Text-book the same as for 13 a. *Three hours a week in the second semester.*

14 Ballads and Folklore.

English and Scotch popular ballads. Origin of ballads in relation to origins of art. Text-book, *English and Scottish Popular Ballads,* edited by Sargent and Kittredge, from the collection by F. J. Child. *Two hours a week in the first semester.*

15 Modern Drama.

A study of the drama of the nineteenth and twentieth centuries in relation to the work of Ibsen. *Two hours a week in one semester.*

16 English Novel.

An historical survey of the whole period of the English novel. Lectures, class exercises, and occasional papers. *Two hours a week in one semester.*

Note—An English Club, formed to promote interest in English studies, holds meetings once a month.

History

1 Medieval History.

Brief preliminary survey of ancient European history. Study of Medieval Europe from the barbarian invasions to the 16th century. Lectures, recitations, and written tests. Text-books: Adams' *European History,* supplemented by Emerton, *An Introduction to the Study of the Middle Ages* and *Mediaeval Europe,* with other works. Required in the sophomore year. *Three hours a week in the first semester.*

2 Modern History.

The history of Europe from the Reformation to the present time. Lectures, oral and written tests. Adams' *European History* and supplementary texts. Required in the sophomore year. *Three hours a week in the second semester.*

3 a American History.

Covering the time of discovery, settlement, colonial development, the French Wars and the Revolutionary struggle. *Three hours a week in the first semester.*

3 b American History.

The formation and development of the nation, beginning with the critical time of 1783 and extending through the time of reconstruction after the Civil War. *Three hours a week in the second semester.*

4 a. English History.

The history of England from the earliest times to the Reformation. Text-book, Gardiner's *A Student's History of England.* Supplementary reading in other texts and in such special accounts as Cunningham's *The Growth of English Industry and Commerce* and Traill's *Social England. Three hours a week in the first semester.*

4 b. English History.

The history of England from the Reformation to the present time. Text and assigned readings as in 4 a. *Three hours a week in the second semester.*

Political and Economic Science

1 Advanced Civics.

Text-book, Beard's *American Government and Politics* with references to Wilson's *The State*, Bryce's *American Commonwealth*, and other works. *Three hours a week in one semester.*

2 Economics.

Text-book, Bullock's *Introduction to the Study of Economics*, with references to Mill's *Principles of Political Economy* and other standard works. *Three hours a week in one semester.*

Philosophy

1 Descriptive Psychology.

Lectures. Text-book, Angell's *Psychology*, with references to Ladd, James, and other authors. Required in the sophomore year. *Three hours a week in the first semester.*

2 Experimental Psychology.

Lecture. Text-book, Seashore's *Elementary Experiments in Psychology*. Required in the sophomore year. *Three hours a week in the second semester.*

3 Logic.

Lectures. Text-book, Creighton's *Introductory Logic*, with references to Mill, Bosanquet, and other authors. Required in the junior year. *Three hours a week in the first semester.*

4 Introduction to Philosophy.

Lectures and discussion. Text-book, Paulsen's *Introduction to Philosophy*. Required in the junior year. *Three hours a week in the second semester.*

5 Ethics.

Lectures. Text-book, Dewey and Tuft's *Ethics* with references to bibliography. Required in the senior year. *Two hours a week throughout the year.*

6 History of Philosophy.

Lectures, with references to Zeller, Lewes, Cousin, Burt, Windelband, and other authors. Open to those who have taken courses 1-4. *Two hours a week as arranged.*

Education

1 History of Education.

Lectures. Monroe's *Text-book*, with references to extensive bibliography. Required of those who wish to obtain teachers' state certificates. *Two hours a week throughout the year.*

2 Educational Psychology.

Lectures. Text-book, Lange's *Apperception* with references to bibliography. Required of those who wish to obtain state teachers' certificates. *Three hours a week in the second semester, usually in the sophomore or junior year.*

3 Pedagogy.

Lectures on the principles of teaching. Extensive bibliography. Practical work in teaching in the Academy of Milton College or in the Milton High School. *Three hours a week in the second semester, usually in the senior year.*

Latin

B Beginners' Latin.

For students without previous work in Latin. The elements of Latin and Caesar's *Bellum Gallicum*, Books I.-III. *Five hours a week throughout the year.*

A Cicero and Virgil.

Six orations of Cicero and six books of Virgil's *Aeneid*. Prose composition. *Five hours a week throughout the year.*

1 Livy or Cicero.

Selections from Livy, Books I. and II., or XXI. and XXII., or else either Cicero's *De Senectute* or *De Amicitia*, supplemented by Virgil's Eclogues. Exercises in writing Latin once a week. *Five hours a week in the first semester.*

2 Horace.

Selections from the Odes, Satires, and Epistles. *Five hours a week in the second semester.*

3 Roman Satire.

Selections from Juvenal, Horace, and Persius. *Three hours a week in one semester.*

4 **Tacitus.**
Germania and Agricola. *Two hours a week in one semester.*

5 Roman Drama.
Selected Plays of Plautus and Terence. Early Latin Literature. *Two hours a week throughout the year.*

6 **Epistolary Latin.**
Selected Letters of Pliny and Cicero. *Three hours a week in one semester.*

7 Catullus.
Two hours a week in one semester.

8 **Study of Roman Antiquities.**
Three hours a week in one semester.

9 **Easy Translation Course.**
Either (a) Quintus Curtius and Sallust, or (b) Cæsar (Book VII. of the Gallic War) and Nepos, or (c) the Vulgate. Open to all college students. *One hour a week throughout the year.*

10 **Advanced Latin Composition.**
Open to students who have completed courses 1 and 2. *Two hours a week throughout the year.*

11 Special Courses.
Author to be read and work to be done is arranged from year to year to meet the needs of the time. *Three hours a week in one semester.*

12 **Study of Special Subjects.**
Arranged from year to year; as Roman Political Institutions, Latin Palæography, Roman Law, Latin Hymns, etc. *Two hours a week in one semester.*

13 **Latin Methods.**
A course in methods of teaching Latin, for those intending to become teachers. *Two hours a week in one semester.*

NOTE—A classical club, formed among the students, holds meetings once a month.

Greek

1 Beginners' Greek.

Those who begin Greek in the college will take first and second year Greek just as in the academy courses (See under "Studies in the Academy"), but for full college credit will be expected to complete the second book of the Anabasis in the first year and the twelve books of the Odyssey or an equivalent in the second year. *Five hours a week for two years.*

2 Homer and Lysias.

Homer's *Odyssey,* Books V.-XII., or the *Iliad,* Books IV.-VI., and selections, in the first semester; Lysias, with grammar and composition, and the *Philippics* of Demosthenes in the second semester. *Five hours a week.*

3 Advanced Greek.

The Alcestis of Euripides, selections from Herodotus and Thucydides, and Jebb's *Primer of Greek Literature,* in the first semester. Plato's *Apology* and *Crito* and Thucydides, in the second semester. *Three hours a week.*

4 Dramatic Poets.

Two plays of Æschylus, Sophocles, or Euripides and the study of meters in the first semester. Plays of Aristophanes with discussion of the Attic Drama and Theatre in the second semester. *Three hours a week.*

5 Poets and Orators.

Greek Lyric Poets in the first semester: Greek Orators in the second semester. *Three hours a week.*

6 Plato.

Selected Dialogues. *Twice a week throughout the year.*

French

1 First Year French.

Work in grammar, reading, conversation, and phonetics, based upon Fraser and Squair's *French Grammar.* Additional texts read during the year. *Five hours a week throughout the year.*

2 Second Year French.

Translation and criticism of standard French authors, following the development of French literature from the seventeenth century through the nineteenth century. Composition one hour a week. *Four hours a week throughout the year.*

3 Composition and Conversation.

For students who wish to do advanced work in composition, conducted wholly in French. *Two hours a week throughout the year.*

4 General Survey.

A brief survey of the whole field of French literature, showing main divisions and placing representative authors. Lectures and collateral reading. *Three hours a week throughout the year.*

5 Nineteenth Century Drama.

Study and criticism of representative dramatists, such as Hugo, Dumas-Fils, Angier, Scribe, Rostand, and others. Lectures and assigned reading. *Three hours a week in the first semester.*

Spanish

1 First Year Spanish.

Hill and Ford's *Spanish Grammar* used in connection with Giese's *First SpanishBook.* Translation of selections from *Gil Blas. Four hours a week throughout the year.*

2 Second Year Spanish.

Translation of selections from the *Don Quijote* of Cervantes and from more modern writers. *Two hours a week throughout the year.*

3 Commercial Spanish.

For students who wish practical work in business Spanish, writing letters, advertisements, making out bills, etc. *Two hours a week throughout the year.*

German

B Beginners' German.

For students without previous work in German. *Five hours a week throughout the year.*

1 Freshman German.

Modern prose, narrative and dramatic, and a drama by Lessing or Schiller. Review of the grammar and syntax. Written and oral exercises. Open to those who have had German B or who offer two entrance units of German. *Five hours a week throughout the year.*

2 Classical and Modern Writers.

Selections from nineteenth century novelists and the dramas, Goethe's *Egmont* and Schiller's *Wallenstein.* Written exercises. For students who have had German 1. *Three hours a week throughout the year.*

3 German Composition and Conversation.

This course is especially intended for those who look forward to teaching. *Two hours a week throughout the year.*

4 Sight Reading.

Rapid translation of literary prose and articles in current magazines and newspapers. *Two hours a week (one hour credit) throughout the year.*

5 Modern German Dramatists.

Selected dramas from Grillparzer, Hebbel, Ludwig, Hauptmann and Sudermann, or several dramas of one of these authors, with critical study of his life and works. *Two hours a week in the first semester.*

6 Modern German Novelists.

Readings from Scheffel, Freytag, Keller, Sudermann and Frensson. Representative selections will be read in class and others will be assigned for private reading. *Two hours a week in the second semester.*

7 Faust.

Part I. Read and discussed. *Two hours a week in the first semester.*

8 German Epic, Ballad, and Lyric Poetry.

The course gives a hasty survey of German poetry from the Middle Ages to the present time, including parts of the *Nibelungenlied*, Court Epics, and characteristic *Minnelieder*, in Modern German translations, and selections from leading poets of the eighteenth and nineteenth centuries. Reports on assigned reading. *Two hours a week in the second semester.*

9 Special Courses.

Other courses may be arranged, as the critical study of one author, as Goethe, or of one period, as the Romantic period, or a general survey of the history of German literature.

10 Medieval German.

Courses in Middle High German and Old High German are offered whenever students who are prepared desire to form classes. Wright's Primers are used for elementary study, preparatory to a fuller treatment of the older German dialects in larger German works.

11 Old Saxon.

For the benefit of students specializing in English studies courses are offered in Old Saxon (Old Low German). Text-books: Holthausen's *Altsächsisches Elementarbuch* and Behaghel's *Heliand und Genesis. Two hours a week in one semester, continued in another semester if the whole of the Heliand is read.*

12 Gothic.

For students in Germanic philology courses are offered in the Gothic Gospels of Ulfilas. Text-book, Wright's *Primer of the Gothic Language* for the elementary course.

13 **German Methods.**

A course in methods of teaching German, for those intending to become teachers. *Two hours a week in one semester.*

Courses 3 to 9 are open to those who have had course 2. Course 10 is for advanced German students. Course 11 is for those prepared in German and Anglo-Saxon. Course 12 is for those pursuing advanced linguistic studies.

Note.—A German Club, formed among the students, holds meetings once a month.

Mathematics

1 **Algebra.**

Fite's *College Algebra.* Review of elementary algebra, properties of quadratic equations with emphasis on their graphical interpretations, binomial theorem, variation, progressions, permutations and combinations, and general theory of equations. Required in the freshman year. *Three hours a week in the first semester.*

2 **Plane Trigonometry.**

Wilczynski and Slaught's *Plane Trigonometry.* Theory of trigonometric functions, solutions of triangles, elements of logarithms, and complex numbers. Required in the freshman year. *Three hours a week in the first semester.*

3 **Analytic Geomentry.**

Wilson and Tracey's *Analytical Geometry.* Co-ordinates and equations, the straight line, the circle, the parabola, the ellipse, the hyperbola, transformation of co-ordinates and simplification of equations, polar co-ordinates. Open to those who have taken courses 1 and 2. *Four hours a week in the first semester.*

4 **Elementary Calculus.**

A short course in Calculus. Theory of limits, differentiation, applications to geometry and physics, maxima and minima, rates, simple integration and areas. Open to those who have had course 3. *Three hours a week in the second semester.*

5-6 **Advanced Calculus.**

Granville's *Differential and Integral Calculus.* A continu-

ation of course 4. Curvature, partial differentiation, envelopes, series, expansion of functions, singular points, curve tracing, successive and partial integration, simple differential equations. Open to those who have had courses 3 and 4 or their equivalents. *Three hours a week throughout the year.*

7 Differential Equations.

An elementary treatment of differential equations with applications to physics and mechanics. Open to those who have taken courses 5 and 6. *Three hours a week in the first semester.*

8 Surveying

Recitations and problems in the determination of heights, distances, and areas. Field practice with the chain, the tape, the transit, and the level. Open to those who have taken course 2. *Two hours a week in either semester.*

9 Solid Analytic Geometry.

Snyder and Sisam's text. Determinants. Lines, planes, and surfaces. Properties of quadric surfaces. Homogeneous and tetrahedral co-ordinates. Required of those who take their major in mathematics. *Three hours a week in the first semester.*

Astronomy

1 Introduction to Astronomy.

Moulton's text. A descriptive course designed to give the student familiarity with the solar system, the principal constellations, and the brighter stars. The results of modern investigations are discussed. Open to students beyond the freshman year. *Three hours a week in the second semester.*

Drawing

1 Mechanical Drawing.

Phillips and Orth's *Mechanical Drawing.* Free-hand drawing in perspective and in orthographic projection, use of instruments, lettering, working drawings, tracing, blue printing. Open to freshmen. *Three hours a week throughout the year.*

Physics

b Elementary Physics.

Text-books: Black and Davis's *Practical Physics*, and Millikan and Gale's *A Laboratory Course in Physics.* Open for credit to freshmen who have not offered physics for entrance. *Five hours a week throughout the year.*

1 General Physics.

Reed and Guthe's *College Physics.* Lectures and recitations, four hours a week. Laboratory practice, four hours a week. Open to those who have taken Mathematics 1 and 2. *Full stud throughout the year.*

2 Heat and Light.

Advanced course of lectures. Open to those who have taken course 1. *Three hours a week in the first semester.*

3 Electricity and Magnetism.

Advanced course of lectures. Open to those who have taken course 1. *Three hours a week in the second semester.*

Chemistry

1 General Chemistry.

The subjects covered in this course will include a careful study of the occurrence and properties of the elements, together with laws governing all chemical reactions. Prerequisite: Elementary physics; high school chemistry is recommended. Lectures or recitations three hours per week with two double laboratory periods per week throughout the year. *Five hours credit in each semester.*

2 Qualitative Analysis.

The detailed separation of the metals, non-metals and acid radicals. The student is required to apply the theory of course 1, and explain the reason for each reaction. The ionic theory, solubility product, laws of concentration, hydrolysis, amphoteric hydroxides, etc., are studied and applications made in the separations. Required of major students. Prerequisite: course 1. One lecture or recitation with four hours of laboratory work per week throughout the year. *Three hours credit in each semester.*

3 Quantitative Analysis.

The work embraces the principal methods of gravimetric, volumetric, and electro-chemical analysis, and the use of reference works and chemical journals. This course gives quantitative application of the laws studied qualitatively in course 2. Required of major students. Prerequisite: courses 1 and 2. One lecture or recitation with four hours of laboratory work per week throughout the year. *Three hours credit in each semester.*

4 Physical Chemistry.

A course presenting the conceptions of modern physico-chemical theories concerning the states of aggregation of matter. The first semester is taken up with a detailed study of quantitative laws governing gases, liquids, solids and substances in solution. During the second semester a study of the phase rule and electro-chemistry is taken up and there is a detailed study of the laws of chemical equilibrium. Prerequisite: courses 1 and 2. Two lectures or recitations per week throughout the year. *Two hours credit in each semester.*

5 Organic Chemistry.

A study of the methods of preparation and the properties of the more important organic compounds. Special stress is laid upon the theories underlying the subject and the proofs of the constitution of most of the substances studied. Required of major students. Prerequisite: course 1. Two lectures or recitations and two hours of laboratory work per week throughout the year. *Three hours credit in each semester.*

6 Household Chemistry.

In the first semester a careful study is made of the occurrence and properties of elements, together with laws governing chemical reactions. During the second semester practice is given in the standard methods for the analysis of foods and the detection of adulterants. This course is a preparation for the

study of domestic science. Prerequisite: Elementary physics; high school chemistry is recommended. Two lectures or recitations and two hours of laboratory work per week throughout the year. *Three hours credit in each semester.*

Biology

1 Biology.

Microscopy, Plant and Animal Biology. Laboratory work and lectures. Open to freshmen and sophomores. *Two hours each day. Five times a week throughout the year.*

2 Physiology.

Anatomy, Physiology and Hygiene. Open to sophomores and juniors. *Five times a week in the first semester.*

3 Zoology.

Laboratory work. Special studies and a summary thesis. Open to sophomores and juniors. *Two hours each day. Three times a week in the second semester.*

4 Botany.

Laboratory work. Special studies and a summary thesis. Open to sophomores and juniors. *Two hours each day. Three times a week in the second semester.*

Geology

1 Physiography and Dynamic Geology.

Lectures, review papers and discussions. Open to juniors. *Five times a week in the first semester.*

2 Paleontology.

Class work, field studies, and a thesis. Open to juniors. *Five times a week in the second semester.*

Note—In Biology and Geology there are special courses for those who choose their major in one of these departments. The work will include the senior thesis, a copy of which must be placed in the department library. Open to seniors. *Three times a week throughout the year.*

English Bible

1 Old Testament.

Lectures and a study of the text of the American Standard Revision. Analysis of the Old Testament with introduction. Elective. *Three hours a week throughout the year.*

2 New Testament.

Lectures and a study of the text of the American Standard Revision. Analysis of the New Testament with introduction. Elective. *Three hours a week throughout the year.*

Note:—In 1917-'18, course 2 will be given.

THE ACADEMY OF MILTON COLLEGE

The Academy of Milton College is primarily a preparatory school. Its graduates are admitted to the University of Wisconsin without examination. Courses of study are indicated in the table on the following page. They all prepare students for admission to the freshman class of the college. Other combinations of studies than those indicated may be arranged, conforming in all cases to the college entrance requirements.

The studies indicated in the table are all pursued throughout the year except when two subjects are mentioned together. In this case the subject first mentioned is studied during the first semester and the second subject during the second semester. Classes in all studies meet five times a week except in the case of English. The four years' work in English as arranged makes up the three full units of English required for admission to the freshman class; but it should be noted that much more and better written work is done thus in four years than if the three units were covered in three years. Elocution is included in English as follows:—

	Mon.	Tues.	Wed.	Thurs.	Fri.
1st year	English	English	English	Elocution	English
2nd year	English		English	English	English
3rd year	Elocution	English	English	English	English
4th year		English	English		English

Each student is required during the fourth year to furnish one written essay, involving considerable research, aside from class work in English, or work done for a lyceum exercise, and in addition to any work done for presentation at the graduation exercises of the academy.

COURSES OF STUDY IN THE ACADEMY

Years	Latin and Greek	Latin and Modern Language	Latin and History	Language and Science (a)	Language and Science (b)*
I	First Year Latin Algebra Physical Geography- Elementary Biology First Year English	First Year Latin Algebra Physical Geography- Elementary Biology First Year English	First Year Latin Algebra Physical Geography- Elementary Biology First Year English	First Year Latin Algebra Physical Geography- Elementary Biology First Year English	First Year Latin Algebra Physical Geography- Elementary Biology First Year English
II	Second Year Latin Geometry Ancient History Second Year English	Second Year Latin Geometry Ancient History Second Year English	Second Year Latin Physiology-Botany Ancient History Second Year English	Second Year Latin Physiology-Botany Ancient History Second Year English	Second Year Latin Physiology-Botany Ancient History Second Year English
III	Cicero Physics Greek Third Year English	Cicero Physics German or French Third Year English	Cicero Medieval and Modern History Geometry Third Year English	German or French Geometry Medieval and Modern History Third Year English	German or French Geometry Chemistry Third Year English
IV	Virgil American History Greek Fourth Year English	Virgil American History German or French Fourth Year English	Virgil American History Physics Fourth Year English	German or French Physics American History Fourth Year English	German or French Physics American History Fourth Year English

*Other combinations of language with science may be arranged, not less than two years of one language being pursued

STUDIES IN THE ACADEMY

English

First Year English.

Oral and written composition. Text-book, Briggs and Kinney's *First Book of Composition.* Class room study of *The Courtship of Miles Standish, The Sketch Book, Lady of the Lake, A Midsummer Night's Dream, The Merchant of Venice* or equivalents. Two books of outside reading required each semester.

Second Year English.

Oral and written composition. Text-book, Briggs and McKinney's *First Book of Composition.* Class room study of *Ivanhoe, The Rime of the Ancient Mariner,* selection from *The Idylls of the King, Silas Marner, Julius Caesar* or equivalents. Two books of outside reading required each semester.

Third Year English.

First semester, chronological study of principal American authors. Oral and written composition one hour a week. Text-books, Long's *American Literature* and Clippinger's *Composition and Rhetoric.* Second semester, chronological study of English authors. Text-book, Long's *English Literature.* Special class-room study of the Prologue to the *Canterbury Tales* and Shakespearean drama. Two books of outside reading required each semester. Composition continued in second semester.

Fourth Year English.

Study of English authors during the year. Themes at regular intervals. Outside reading required. Text-book: Long's *English Literature.*

Note—For number of recitations a week see table of days on Page 47.

History and Civics

Ancient History, including Oriental, Greek, and Roman.

Text-book, Myers' *Ancient History*, with references to West's *Ancient World* and other histories. *Throughout the year.*

Medieval and Modern History.

Myers' *Medieval and Modern History*. *Throughout the year.*

History of the United States.

Text-book, Muzzy's *American History*, with references to other text-books and authorities on the subject. *Throughout the year.*

Mathematics

Algebra.

Hawkes, Luby and Touton's *First course in Algebra*. Elementary operations including factoring, finding common divisors and multiples, reduction of fractions, and known quantities; involution, evolution, radicals, quadratic equations. *Throughout the year.*

Geometry: Plane.

Wentworth and Smith's *New Plane and Solid Geometry*. Elementary principles and their application to original theorems and problems; **Solid**—A study of points, lines, and planes in space, polyhedrons, cylinders, cones and spheres, with original exercises. *Throughout the year.*

Arithmetic.

Classes are sometimes formed for students not sufficiently prepared in arithmetic. Smith's *Commercial Arithmetic*. Percentage and its application to profit and loss. Commission, interest, discount, insurance, taxes, stocks, and exchange; ratio and proportion; and involution and evolution.

Science

Physics.

Text-books: Black and Davis's *Practical Physics*, and Millikan and Gale's *A Laboratory Course in Physics*. Two double periods are spent each week in laboratory work *Full study throughout the year.*

Chemistry.

Text-book, Hessler and Smith's *Essentials of Chemistry. Recitations and Laboratory work throughout the year.*

Physical Geography.

General course. *First semester.*

Elementary Biology.

General course. *Second semester.*

Elementary Physiology.

Walker's Physiology. *First semester.*

Elementary Botany.

Bailey's *Elements of Botany* and Gray's *Manual. Second semester.*

Latin

First Year Latin.

Special attention is given to inflection, vocabulary, pronunciation, and translations into idiomatic English. Frequent reviews and written exercises are given. Text-book, D'Ooge's *Latin for Beginners. Throughout the year.*

Second Year Latin.

Four books of Cæsar or any equivalent amount from various Latin writers. Prose composition one hour a week. Text-book usually Walker's *Caesar's Gallic War. Throughout the year.*

Cicero's Orations.

Four Orations against Catiline. Three other orations, including *De Imperio Pompeii*. Prose Composition one hour a week. *Throughout the year.*

Virgil.

Six books of the *Æneid*. Attention is given to the reading of the Latin, carefully prepared translations of review lessons, mythology, figures of speech, etc. *Throughout the year.*

Greek

First Year Greek.

A study of the elements of the language. Xenophon's *Anabasis*, Book I., with Greek Prose Composition. *Throughout the year.*

Second Year Greek.

Xenophon's *Anabasis*, Books II.-IV., with Greek Prose Composition, Homer's *Odyssey*, Books I.-IV., or *Iliad*, Books I.-III.

German

Elementary German

Corresponding to the elementary courses outlined in the Report of the Committee of Twelve. Grammar and reading of easy modern narrative prose and one or two short plays and a few poems committed to memory. Practice throughout the two years in speaking and writing German. Students should at the end of this time be able to pronounce and translate at sight simple German prose, and to carry on a simple conversation based upon the texts given for translation. *Five hours a week throughout two years.*

French

Academy French.

Students pursuing French in the academy will take two years' work with college classes. See under "Departments of Instruction."

PUBLIC SPEAKING

Courses of study in public speaking are of the greatest value to any student, no matter what the purpose of his study may be, because they contribute to his personal efficiency in several ways, primarily through the most important means of power, the expression of thought by the body and the voice. They also afford an excellent training of the mind, especially through the practice of the laws that govern the effective persuasion of others. There is, moreover, no branch of study that contributes more to the development of a strong personality. The Greeks were aware of the value of oratory and regarded it as the most important part of one's training. Practice in expression may well be continued through the entire preparatory and college education.

Public Speaking

In the College.

College students are required to attend a class in Public Speaking two hours a week for one year. This is required by the junior year, but should preferably be taken earlier if the student has time for it.

In addition to this work, for the benefit of those who shall have finished this required course and those who have already had one year of such work, a more advanced course in Oratory and Interpretation is offered, continuing three hours a week throughout the entire year. It is hoped that all who are prepared to do so will avail themselves of this opportunity.

Required Course.

Public Speaking. Text-book, Phillips' *Effective Speaking. Two hours a week throughout the year.*

Elective Course.

Oratory and Interpretative Reading. Orations and plays by standard authors are studied. Open to those who have taken the required course in public speaking. *Three hours a week.*

Special classes or private lessons may be arranged to meet the needs of individual students.

In the Academy.

All the pupils in the Academy of Milton College are required to take exercises in Elocution as a part of their work in English. See page 47.

Credit

In College the usual full credit is given for the work in public speaking.

In the Academy the work in elocution receives credit as part of the course in English.

Fees

Students in the institution taking regular courses pay for the work in this department the usual proportionate tuition based on the number of hours taken. Those not in the College and who take either of the courses pay for the two-hour course the sum of four dollars per semester and for the three-hour course five dollars per semester.

Fees for the regular courses and the fee for physical culture are paid through the college office.

For private instruction fees are payable directly to the Instructor. These are as follows: For a regular course of instruction, two half-hour lessons a week, $7.50 per half-semester of nine weeks. For individual lessons fifty cents per half-hour.

PHYSICAL CULTURE

The authorities at Milton College believe that some proper physical training, by a skilled director under medical supervision, ought to be given to all students at Milton College and that regular physical exercises ought to be required of all students. As a step toward the ideal we hope to reach, there is now required of all students of the Academy of Milton College and of all students in the College below the senior year, regular physical training based upon a systematic medical examination.

Medical Examination

The reasons for requiring a medical examination are (1) to furnish each student at the beginning of every semester information as to his general physical condition, that he may be guided in caring for his own health and in taking up such exercises as shall develop him in health, strength, and bodily symmetry; (2) to prevent any student from engaging in severe exercises or entering into sports that might injure his health; and (3) to enable the physical director to know just what each student needs for his best physical development.

It is hoped that all students will perceive the advantage of such an examination and that they will co-operate with the authorities of the college by taking the examination willingly and regularly and by following the suggestions that may be made by the medical examiner and physical director.

Examinations are made of all students at the beginning of each semester and of certain students oftener, if the medical examiner finds need for more frequent examination. At each regular examination the student is furnished with a record of it, and such advice is given the student as the examiner in his judgment thinks best to give. The examination is to discover the condition of the eyes, heart, lungs, and vital organs, and any special

condition of any part that may at all affect the student's work or physical training. This is supplemented by bodily measurements taken by a physical director. The repetition of the examination at the beginning of each semester enables the director, with the advice of the physician, to determine the result of the work already done and better to plan the work for the succeeding semester.

Examiners and Director

Two competent physicians, a gentleman and a lady, make the examination at times announced at the opening of the college in September, but the same physical director takes charge of the classes of men and women students.

Gymnasium Classes

The regular class work is held in the gymnasium in the afternoon twice a week for both men and women. Individual work is arranged to meet the necessities of the case. Attendance at the regular classes is required of all academy students, and of college students during at least two years of their course except those specially excused by the medical examiner, for reasons, and those excused by the faculty on certificate of their employers. But any student not forbidden by the medical examiner, and any member of the faculty or music student, may be admitted to the class with the approval of the director, except that no one will be admitted to a class without a previous examination.

Fees

Every student must pay to the treasurer of the college a fee for each regular examination as follows:— In all cases at the beginning of the first semester, and at the beginning of the second semester in the case of students not already examined, fifty cents. At the beginning of the second semester in the case of students already examined in the first semester, twenty-five cents. If an examination is required oftener than at the beginning of the semester, it will usually be given without fee.

Every student in the college or academy, irrespective of whether he takes physical training or is excused therefrom is charged a fee for the use of the gymnasium of fifty cents per semester.

These fees, amounting in general to one dollar in the first semester and seventy-five cents in the second semester, are charged to every student and are payable to the college treasurer at the beginning of the semester. Free scholarships do not cover these fees, but they are to be charged to those receiving free tuition as well as to all other students. Members of the faculty and music students or others, if they take physical training must also pay these fees.

Lockers in the gymnasium may be rented by students for fifty cents a semester. The rent is usually collected for the year at the beginning of the first semester. A deposit of twenty-five cents is also required for the key to the locker. Locker rent is paid to the college treasurer at his office. The deposits for keys are paid to the physical director, from whom keys are obtained on presentation of the treasurer's receipt for rent of locker.

Private Work

Any one who may desire private instruction from the physical director may make his own arrangements for such work. But if not a student already examined and enrolled, he must first take the usual examination and pay to the treasurer of the college the proper fees for the examination and for the use of the gymnasium.

SCHOOL OF MUSIC

The principal courses in music are the following: Voice Culture, Harmony, Pianoforte, Violin, Viola, and Violoncello.

Two years' study of Harmony, one year of the Theory of Music, and the course in the History of Music are required in the Pianoforte, Voice Culture, and stringed instrument courses; and at least the first two grades of one of the instrumental courses is a prerequisite of the completion of the Harmony and Voice Culture courses.

Pupils having completed any one of the above courses and having completed a full course in the Academy, or its equivalent, are entitled to a certificate of graduation in such course.

PIANOFORTE COURSES

MISS ALBERTA CRANDALL

The instruction in pianoforte playing is in five grades extending over a period of five or more years on a basis of two lessons per week.

A correct hand position and a flexible wrist are insisted on from the first as requisites for proficiency. Exercises from Mason's *Touch and Technic*, Philitt's *Finger Training*, and other aids, are used for the acquirement of correct finger, hand, and arm touches.

The technical exercises used include studies from Czerny, Heller, Cramer, Kullak's *Octaves*, *Books I. and II.*, Krause's *Trill and Other Studies*, Sonatinas from Kuhlau or Clementi, and Bach's *Two and Three Part Inventions*.

Pieces suited to the different grades are used, including selections from Schumann, Mendelssohn, Mozart, Raff, Beethoven, Schubert, Chopin, and others.

A course in Musical Kindergarten extending over a period of a year is recommended for beginners of from five to twelve years of age. The advantage of such a course is that the subject-matter is presented in such a simple and interesting way, by means of songs, stories, and games, that the children are thoroughly interested and make much more rapid progress than when taught by the old method.

The following subjects are included in the course: Notation, or sight-reading, ear-training, memorizing, metre, rhythm and time or movement, a knowledge of the key-board, a familiarity with musical signs and terms, the building of scales, major, minor, and chromatic, degrees, intervals, triads and chords, technic and musical history.

The Sweet-Whitney *Music Method* is the method used, and it is taught in classes of three.

VOICE COURSES

MR. LEMAN H. STRINGER

This course comprises a complete system of voice culture. The vocal instrument consists of not only the mouth, larynx, lungs, etc., but practically of the entire body; therefore a system of physical exercises is used for the strengthening and building up of the entire vocal instrument.

Careful attention is given to the art of relaxation, breathing, utterance, physical expression, tone attack, enunciation, pronunciation, etc.

Marzo's *Preparatory Course for Vocalization* is used in the first year and Concone exercises are used for more advanced students. The books to be studied in connection with this course are, Taylor's *Psychology of Singing*, Rogers' *Philosophy of Singing*, and Henderson's *Art of Singing*.

The time required to complete this course depends upon the ability of the student.

Elementary Vocal Music

The rudiments of music, notation, solmization, sight-reading and elementary and chorus singing are included in this course. It is preparatory to the Voice Culture course and it is a desirable adjunct to all the other courses. The time required for its completion is usually two years for persons of ordinary talent.

STRINGED INSTRUMENT COURSES

MISS NELLIE BENTLEY

The practical studies in the violin course include technical exercises, major and minor scales in all positions; studies by Tuors, Kayser, Kreutzer, and Rode; pieces and concertos by classical and modern composers.

In the case also of the Viola and Violoncello, special attention is given to technical studies and the standard literature for each instrument.

ORGAN

PRESIDENT WILLIAM C. DALAND

Students who are thoroughly proficient in piano-playing and who are good readers may obtain a fair command of the organ in two years.

In the first year Rink's *Organ School* is studied, and in the second year Mendelssohn's organ sonatas and Bach's fugues are introduced as soon as the pupil is sufficiently advanced. Dudley Buck's *Studies in Pedal Phrasing* are used in connection with classical organ compositions.

The rapidity with which the course is carried on depends entirely on the ability of the student.

OTHER INSTRUMENTS

Arrangements may be made for lessons on the flute, cornet, mandolin, and other instruments.

THEORETICAL COURSES

MISS ALBERTA CRANDALL

Harmony

This course embraces the study of Harmony, Single and Double Counterpoint, Choral Preludes, Free and Strict Imitation, Canon, Fugue, Musical Form, and practical work in Composition. Chadwick's *Manual of Harmony* and Treatises on *Counterpoint and Fugue*, are the text-books used.

Theory of Music

For a pupil of ordinary ability the time required to complete this course is about five years on a basis of two lessons per week and three to four hours of daily study.

The course in the Theory of Music embraces the fundamental principles of music and explains the laws of acoustics, musical rhythms, abbreviation and signs, embellishments, and musical form. The student is required to analyze song-forms, sonatas, vocal, and contrapuntal forms. The course may be completed in one year and a small fee is charged per quarter.

History of Music

The course in the History of Music covers the ground of development from the earliest known beginning and development of notations, polyphony, oratorio and opera, as well as the invention and improvement of instruments. Brief biographies of the important composers of the different periods are included in the course. The course is taught in classes, and is free to all students of the School of Music.

ADDITIONAL PRIVILEGES

Sight Playing and Ensemble Classes

To aid students in the instrumental courses, classes in sight playing and for ensemble work are organized for practice in the playing of duos, trios, and work for the pianoforte and stringed

instruments; also recitals are given from time to time as an essential means of training for students in these courses.

These adjuncts to musical training are free, and all students in instrumental courses are required to attend them. Those who are prepared to take allotted parts in the orchestra may receive the benefit of the weekly practice of the college orchestra.

Chorus Practice

The chapel choir, college chorus, and glee club afford an opportunity for students to obtain practice in chorus singing.

MISCELLANEOUS INFORMATION

GENERAL EXPENSES

Degrees and Diplomas

Students who are graduated from the College receive the degree of Bachelor of Arts. The second or Master's degree may be conferred upon graduates that have satisfactorily pursued literary, scientific, or professional studies for three years after graduation, or that have completed in any recognized university a course that is required in that university for an advanced degree. The charge for a diploma certifying a degree is $5.00.

General Fees per Semester

Tuition in College Classes	$16.00
Tuition in Academy classes	12.00
Incidental Fee charged to all students	4.00
Fee for supervision of a study pursued outside of class, $1 to	5.00
Fee for special examination	1.00
Gymnasium Fee, per semester, charged to all students	.50
Fee for Physical examination, first semester	.50
The same, second semester	.25

The rate of tuition of college students is increased one dollar per semester for each hour per week above sixteen (16) hours, and diminished one dollar per semester for each hour less than fifteen (15) hours.

The rate of tuition of academy students is increased one dollar per semester for each hour per week above twenty (20) hours and diminished one dollar per semester for each hour less than fifteen (15) hours.

Laboratory Fees per Semester.

Biology 1, 3, or 4	$3.00
Physics 1	3.00
Chemistry 1	4.00
Chemistry 2 or 3	5.00
Chemistry 5	6.00
Chemistry 6	3.00

In addition to the laboratory fees a deposit of three dollars is required for Chemistry 5 and two dollars for all other laboratory courses in chemistry. The amount refunded at the end of the semester is determined by the department of chemistry, and will depend on the chemicals used and the care exercised by the student in avoiding breakage of apparatus.

Student Tax

A tax of two dollars per semester is collected from all registered students. This money is used to support the Athletic Association, the Oratorical Association, and the Milton College Review. The payment of this tax entitles each student to free admission to all baseball and basket ball games and to all contests and debates held under the auspices of the Oratorical Association, and to a subscription to the Milton College Review for one semester.

By an unanimous vote of the student body, the Trustees of Milton College were requested to make this tax compulsory on all students and to collect the tax at the beginning of each semester.

All fees, including the student tax, are payable in advance. Before entering classes at the beginning of a semester, students are required to visit the Treasurer of the College and either settle their accounts or make arrangements for settlement of the same.

Rooms and Board

Rooms for women are furnished in Goodrich Hall with stoves, bedsteads, tables, and chairs. Beds and bedding with other furniture must be supplied by the students. The charge to each student is $8.00 per semester. An additional charge, usually $2.50 a semester, is made for electric light.

Students who wish to board themselves may hire convenient rooms in private houses at about the same rate. Rooms and board may be obtained in private families at from $4.00 to $5.00 a week. Table board in club or private family varies from $3.50 to $4.50 a week.

Estimated Expenses per Year

Tuition, Incidentals, and Fees	$ 38.00 to $ 58.00
Board at $3.50 to $4.50 per week	$126.00 to $162.00
Rooms at $8.00 to $12.00 per semester	$ 16.00 to $ 24.00
Fuel and Lights	$ 18.00 to $ 24.00
Laundry	$ 10.00 to $ 15.00
Text-books	$ 11.00 to $ 27.00
Sundries	$ 20.00 to $ 30.00
	$239.00 to $340.00

The minimum expenses for a year of thirty-six weeks to a student who boards himself are about $225; to one who boards in a club, about $250; and to one who boards in a private family, about $275.00.

Opportunities for Self Support

Industrious students, both men and women, can generally find opportunities in the village and vicinity, during semesters and vacations, to earn sufficient funds to meet in part their expenses. A large number aid themselves in this way every year. Most graduates of the college have been students of limited means who earned their way by manual labor, by teaching in the public schools, or by engaging in other occupations.

FREE SCHOLARSHIPS

Milton College offers a free scholarship for one year to the graduate having the highest honors in his class in each high school in the State of Wisconsin that requires a four years' course of study. A free scholarship for one year is also offered to the graduate having the highest honors in his class in such other high schools in the neighboring states as its Board of Trustees may specially designate.

Free scholarships for one year are also offered to the graduates of the Academy of Milton College, and to the students belonging to the Freshman, Sophomore, and Junior classes, each of whom shall have completed the year with the highest honors. Such scholarships are now held by Nan E. Grundy, graduate with the highest honors of the Academy of Milton College, class of 1916; Pearl R. Gaarder, honor student of the Freshman class of 1916; and Ruth A. Stillman, honor student of the Junior class of 1916.

A plan has also been put into operation of granting a full free scholarship to that church, society, or individual that shall give one thousand dollars to Milton College as a permanent endowment fund, the interest of which is to be used for the payment of the tuition of the student whom such church, society, or individual may nominate. Students are now the beneficiaries of such scholarships, designated as follows:

The Mary F. Bailey Scholarship.
The Jennie B. Morton Scholarship.
The Ezra Crandall Scholarship.
The Salem College Scholarship.
The Class of 1907 Scholarship.
The Rev. Oscar Babcock Scholarship.
The Rev. Edwin Shaw Scholarship.
The Albertus D. Crumb Scholarship.
The William H. and Mary E. Rich Scholarship.

All scholarships include free tuition and incidentals, but not laboratory fees, board, room, or other expenses. Some of these

are awarded only on certain conditions, which will be made known upon application.

BUILDINGS

Milton College has five buildings devoted to various purposes. The Main Building contains the offices, the chapel, and many recitation and lecture rooms. The Whitford Memorial Hall contains the Library and the lecture rooms and laboratories for physics, chemistry, and biology. In this building also are the rooms for the gentlemen's literary societies. The other buildings are Goodrich Hall, the ladies' dormitory, containing a room for a ladies' literary society; the Auditorium Gymnasium, situated south of the buildings mentioned; and the President's Home on an eminence further south of the buildings. The campus fronts on College Street in the village of Milton.

EQUIPMENT

The Library

The College Library consists of what were originally the Daniel Babcock Library, the Orophilian Library, the Iduna Library and the Philomathean Library. These Libraries have been consolidated and are under the general management of the College Librarian, appointed by the Board of Trustees.

The Library now contains nearly 10,000 books and 500 pamphlets newly classified and provided with a dictionary card catalogue. There are also several hundred other pamphlets and volumes of unbound magazines.

Books or magazines may be borrowed by students and residents of Milton subject to the usual library regulations. The library is open every college week-day from 8:00 A. M. to 12:00 M., and from 1:00 P. M. to 4:30 P. M., except during the chapel exercises, that is from 10:00 to 10:30 A. M. It is also open to the public on Tuesday and Thursday afternoons during the summer vacation. During the time college is in session the Library is

also open on Monday and Wednesday evenings from seven till nine o'clock.

Apparatus

The institution is well equipped with apparatus for the student's use in laboratory work in the several courses described under "Departments of Instruction." For the class in surveying, an excellent transit, a compass, a rod and a surveyor's chain are provided. The Chemical Laboratory in the south half of the second story of the Whitford Memorial Hall is well stocked with everything needful for complete work in both General and Analytical Chemistry. The Physical Laboratory is very conveniently located in the south half of the first story. The apparatus of this department has been recently very largely increased, the equipment being now full and complete, not only for the "First Course in Physics," but also for the advanced college classes. The Biological department in the second story over the Library is provided with the best Bausch & Lomb microscopes.

Cabinets

The cabinets illustrative of Mineralogy, Geology, and Paleontology, embrace over four thousand specimens, and exhibit fairly the materials and the formations of the rocks found in the state. There has been presented to the college the W. P. Clarke collection of stone and copper instruments, some of which are rare types belonging to the different periods of the Prehistoric Age, found in the immediate vicinity, elsewhere in our country, and in foreign lands. The college has obtained and preserved over eighteen hundred species of plants, which grow principally in this state. There have been gathered specimens of insects, fishes, birds, and mammals, typical of the groups of animals to which they belong; and a room with convenient cases has been set apart for their exhibition and use. Special students of the college share in the collection and classification of type forms in the several departments.

ORGANIZATIONS CONNECTED WITH THE COLLEGE

The Literary Societies

These are four in number, the Orophilian Lyceum, the Philomathean Society, the Iduna Lyceum, and the Miltonian Lyceum. The first two are for men and the third and fourth are for women. All of these organizations hold their sessions on Saturday evening during the college year. At the end of each year, during Commencement Week, the societies present public programs. Excellent work has been done by each of these societies during the past year. Every student is urged by the faculty to become a member of some one of these organizations, because exceptional opportunities are offered to those who desire to improve in writing, in public speaking, in debating, and in a knowledge of parliamentary practice.

Christian Associations

The first religious organization of the college was established in 1856 for both men and women and continued so until May, 1907. At that time it was reorganized as a Young Men's Christian Association and a Young Women's Christian Association, both affiliated with the state and national organizations. They are absolutely non-sectarian in their organization and management. They hold three prayer and conference meetings a week during the college year. One of these is held on Friday evening and is open to both men and women. The other two meetings are held on Tuesday evening, one for men and the other for women. The associations usually hold three socials during the year, viz.: one at the beginning of the year, the second near the end of the first semester, and the third just before the spring recess. At these socials music is rendered, papers are read, and addresses are presented. An effort is also made to introduce new students to the older ones, and all are invited to join the associations.

The moral and religious influence of these organizations on the student body and on the spirit and life of the institution cannot be overestimated.

The Athletic Association

This organization is composed of all students in the institution, and has charge of all the athletic games and contests connected with it. The contests arranged by the Association are subject to the rules governing athletics. Tennis in the autumn and spring, basket-ball in the Gymnasium during the winter, and baseball in the spring, are the principal games. Early in June of each year the Asssociation holds the annual Field Day, at which records are made in the several field events. The officers of the Association this year are as follows:

President—F. G. Hall; Vice-President—E. H. Hinkley; Secretary—Pearl Gaarder; Treasurer—E. W. Ormsby.

The Oratorical Association

This organization is composed of the members of the four Literary Societies, Iduna, Miltonian, Philomathean, and Orophilian, and the Faculty of the College. The officers are president, vice-president, secretary, and treasurer, chosen annually, one from each of the societies. These officers together with the President of the College and the Faculty of the English Department constitute an executive committee which has general charge of the business of the Association. Two contests are held each year, a declamatory contest in the autumn for the Academy students and an oratorical contest for the College students shortly before the spring recess. Valuable prizes of money are given at each contest. Debates are also arranged between classes or with other colleges. The officers of the Association for the present year are:

President—J. E. Holmes; Vice-President—Verna Foster; Secretary—Henrietta Knuth; Treasurer—E. W. Ormsby; Debate Manager—E. W. Ormsby.

The Alumni Association

The Alumni Association of Milton College was organized in 1870, and its membership consists of those persons on whom the Institution has conferred honorary degrees, as well as those for-

mer students who have been graduated in all the courses of the College and of the old Academy. To this number should be added six distinguished former students who have been elected honorary members of the Association. This organization holds its annual meeting during Commencement Week and at this time a banquet is held. The officers of the Alumni Association for this year are:

President—Dr. E. Stillman Bailey, '73; First Vice-President—Rev. L. C. Randolph, '88; Second Vice-President—Miss Anna Post, '16; Third Vice-President—Miss Bede Leonard, '92; Fourth Vice-President—G. A. White, '14; Secretary-Treasurer, L. H. North, '08.

The Milton Forward Movement

Early in the college year, 1913-14, a movement was initiated among the students to co-operate with the Trustees of the college in all efforts to build up the institution, to increase the number of students in attendance, to foster a spirit of amity and good-will between the students and the community, and in all ways to work for the prosperity of the institution. At its inception this was known as the "Forward Movement." It is significant of the character of the student body of the college. The present officers of the organization are as follows:

President—Marian Ingham; Vice-President—S. C. Green; Secretary—Mabel McGowan; Treasurer—G. R. Greenman.

COMMENCEMENT WEEK 1917
Semi-Centennial Anniversary

June 15, 8 p. m., Meeting of Y. M. C. A. and Y. W. C. A. Fifty Years of Religious Life at Milton.

" 16, 11 a. m., Commemoration Service at the Seventh-day Baptist Church.

" 16, 8 p. m., Students' Meeting conducted by the Literary Societies.

" 17, 10:45 a. m., Union Commemoration Service at the Congregational Church.

" 17, 8 p. m., Baccalaureate Sermon.

" 18, 2:30 p. m., Annual Exercises of the School of Music.

" 18, 8 p. m., Lecture with experiments, "High Frequency Currents", by Mr. Hylon T. Plumb, E. E., M. S., Salt Lake City, Utah.

" 19, 8 p. m., Shakespeare's "As You Like It," presented by the Literary Societies.

" 20, Alumni Day.

" 21, 10 a. m., Commencement Exercises. Address by Dean Edwin Herbert Lewis, Ph. D., Litt. D. of Lewis Institute, Chicago.

" 21, 2:30 p. m., Semi-Centennial Anniversary Exercises.

" 21, 8-11, p. m., President's Reception.

CATALOGUE OF STUDENTS

COLLEGE

Senior Class

Grace Leona Babcock	Delmar, Ia.
Adelaide June Bartholf	Milton
Clifford Leslie Burdick	Milton
Stephanie Daland	Milton
Beth Marie Davis	Milton
Paul Llewellyn Fetherston	Milton
Frank Gregory Hall	Milton
Frances Marian Ingham	Fort Wayne, Ind.
Ruth Ann Stillman	Milton
Mary Belle Taylor	Avalon, R. F. D.

—10

Junior Class

Alice Ruth Boyd	Lima
Isabella Brown	North Loup, Neb.
Rachel Gladys Dunn	Milton
Sidney Charles Green	Albion
Elroy Hall Hinkley	Milton Junction

—5

Sophomore Class

Isaphene Olive Allen	Farina, Ill.
Mary Isabel Austin	Milton, R. F. D.
Geneva Elin Bennett	Milton, R. F. D.
Harold Ormand Burdick	Dunellen, N. J.
Marjorie Janette Burdick	Milton
Esther Crandall	Milton
Fred Wells Crumb	Milton
Dessie Neil Davis	Farina, Ill.

Paul Laverne Emerson	Milton
Verna Susan Foster	Olivet, Mich.
Pearl Rosina Gaarder	Orfordville
Nan Elizabeth Grundy	Janesville
Dwight Harry Hinkley	Milton Junction
Georgia Ella Holbrook	Janesville
Ralph Raymond Holliday	Milton
John Edward Holmes	Milton
Stanley Richard Horwood	Janesville
Mary Kathryn Johnson	Stonefort, Ill.
Henrietta Clara Knuth	Janesville
Leo Lu Lanphere	Milton
Charles Seymour Maxson	Milton
Mabel D. McGowan	Milton Junction
Elwood Walter Ormsby	Alfred Station, N. Y.
Gladys Ione Pelton	Janesville
Leland Campbell Shaw	Plainfield, N. J.
John Harold Thorngate	Milton
Dale Rex Van Horn	North Loup, Neb.
Myron Oliver Warner	Milton Junction

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Freshman Class

Franklin Leman Allen	Farina, Ill.
Laurance Elmore Babcock	Milton
Edna Louise Clement	North Loup, Neb.
George Wayland Coon	Milton Junction
Henry Arthur Curtis	Milton
Elmer Morton Davis	Nortonville, Kan.
Edwin Roland Davy	Milton Junction
Arna Louise Dickinson	Edgerton
Myrtelle Ellis	Dodge Center, Minn.
Ruby Elizabeth Fetherston	Milton
Elizabeth Mary Fletcher	Oregon, R. F. D.
Howard Victor Fox	Milton

Myrtle Violet Fox	Milton
Frank Lawrence Greene	Plainfield
George Rogers Greenman	Milton Junction
Elmer Cyril Harrison	Dodge Center, Minn.
William Simon Hillstrom	Park City, Utah
Lucinda Belle Hudson	Milton
Marian Mackey Hull	Milton Junction
Charles William Hyne	Evansville.
Maurice Walton Ingham	Fort Wayne, Ind.
George Olaf Johnson	Port Wing
Lucy Mary Kellogg	Janesville
Paul David Kelly	Milton Junction
Stephen Redford Lawton	Albion
Henrietta Pauline Lewis	Stonefort, Ill.
Noble Curtis Lippincott	Milton
Esther Lulu Loofboro	New Auburn
Reta Susie Loofboro	New Auburn
Rolland Horatio Maxson	Milton
Hazel Marie McGowan	Milton Junction
Estella Tuttle Pearce	Belleville
Arlouine Persels	Farina, Ill.
Beth Randolph Peterson	Pipestone, Minn.
Howell Sheppard Randolph	Milton
Albert Gerald Sayre	Milton
Hannah Shaw	Ashaway, R. I.
Stephana Shaw	Plainfield, N. J.
Harry Elno Talbot	Milton
Clifford William Clarke Thomas	Milton
Eloise Marguerite Thomas	Albion
Irene Thomas	Ely, Minn.
Helen Marguerite Thorngate	Milton
Melva Rachel Thorngate	North Loup, Neb.
Vesta May Thorngate	North Loup, Neb.
Florence Gladys Wilbur	Avalon, R. F. D.

Special Students

Claude Malcolm Cochran	Battle Creek, Mich.
Fern Amelia Crosley	Milton
Bert Ellsworth Garey	Edgerton
Margaret Evelina La Mont	Milton
Helen Fae Mentzer	Robins, Ia.
Dorothy Kent Wheeler	Boulder, Colo.
Helen Ammerilla Williams	Milton Junction

—7

ACADEMY

Fourth Year

Gladys Eva Calkins	Delavan, R. F. D.
Sarah Janette Lamb	Janesville, R. F. D.
Bertha Sybil Reid	Exeland
Ruth Valentine Stillman	Albion
Vera Leola Thorngate	North Loup, Neb.

—5

Third Year

Francis Henry Hurley	Milton
Victor Harold Hurley	Milton
Violet Alexander Livingston	Milton Junction
Hugh Warren Noble	Albion
Victor Arthur Read	Janesville, R. F. D.
James K. Shiba	Okayamaken, Japan
Reva Mildred Van Horn	Welton, Ia.

—7

Second Year

Harvey Edward Holmes, Jr.	Milton
Pearl Lucile Rothenbach	Milton
Floyd Marvin Van Horn	Welton, Ia.
Harold Alton Van Horn	Garwin, Ia.

—4

First Year

Dewey Lee Bond	Milton
Dora Lenora Hurley	Milton
Clinton Edward Lewis	Dodge Center, Minn.
Viola May Marston	Roscoe, Ill.
James Gordon McLay	Janesville, R. F. D.
Frank Merigold Rodolf	Aberdeen, S. Dak.
Gertrude Rodolf	Aberdeen, S. Dak.

—7

Special Students

Esther Inez Barker	Janesville
Roscoe Marion Thorngate	Milton
Vera Leola Van Horn	Garwin, Ia.

—3

SCHOOL OF MUSIC

Harmony

Adelaide J. Bartholf	Milton
Doris Babcock	Milton
Marian Mackey Hull	Milton Junction
Marion L. Lee	Milton
Beulah McComb	Lima
Helen Fae Mentzer	Robins, Ia.
Irene Thomas	Ely, Minn.

—7

Pianoforte

Clyde E. Arrington	Milton
Mary I. Austin	Milton, R. F. D.
Charlotte Babcock	Milton
Esther Inez Barker	Janesville
Adelaide June Bartholf	Milton
Ruth L. Burdick	Milton
Mildred M. Campbell	Milton
Louise H. B. Capen	Milton

Edna Louise Clement	North Loup, Neb.
Marie Crandall	Milton, R. F. D.
Mary E. Crandall	Milton
Mildred Crandall	Milton
Arna Louise Dickinson	Edgerton
Frieda Einerson	Milton Junction
Frances Ellis	Milton
Ruth de Fluiter	Denver, Colo.
Anna Fox	Milton Junction
Myrtle Violet Fox	Milton
Etta Grace Gould	Lima
A. Adalene Green	Albion
Alice Hull	Milton Junction
Marian Mackey Hull	Milton Junction
Marian L. Lee	Milton
Alice Loofboro	Milton
Beulah McComb	Lima
Helen F. Mentzer	Robins, Ia.
Etta Mary North	Milton
Ruth Paul	Milton, R. F. D.
Beth Randolph Peterson	Pipestone, Minn.
Doris Randolph	Milton
Howell Sheppard Randolph	Milton
Elenora Seeger	Milton Junction
Helen Stepanek	Milton
Arlene Stockman	Milton Junction
William Summers	Milton
Mrs. Ethel Thorngate	Milton
Helen Marguerite Thorngate	Milton
Vera Viola Thorngate	North Loup, Neb.
Frank Tuler	Wausau
Catherine Thorpe	Milton Junction
Vera Leola Van Horn	Garwin, Ia.
Dorothy E. Whitford	Milton
Bernice Will	Johnstown
Anna Marie Woodward	Milton Junction

—44

Voice Culture

Grace Leona Babcock	Delmar, Ia.
Laurance Elmore Babcock	Milton
Esther Inez Barker	Janesville
Adelaide June Bartholf	Milton
Beth Arminta Bingham	Milton, R. F. D.
Esther Elizabeth Campion	Milton, R. F. D.
George Wayland Coon	Milton Junction
Charles Courtney	Milton
Paul Laverne Emerson	Milton
Zetta Entress	Milton
Etta Grace Gould	Lima
Harvey Edward Holmes	Milton
Francis Henry Hurley	Milton
Victor Harold Hurley	Milton
Charles William Hyne	Evansville
Noble Curtis Lippincott	Milton
John McBride	Milton, R. F. D.
Helen Fae Mentzer	Robins, Ia.
Howell Sheppard Randolph	Milton
Nora Roach	Milton

—20

Violin

Herbert Barnes	Milton
Ruth Bingham	Milton, R. F. D.
Myrtle Fox	Milton
Dorothy Maxson	Milton
Genevieve McGowan	Milton Junction
Alice Pfeifer	Milton
Doris Randolph	Milton
Lorraine Summers	Milton
Kathryn Thorngate	Milton

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Elementary Singing Class

Franklin Allen
Dewey Bond
Russel Burdick
Elmer Davis
Cecil Fetherston
Rex Hurley
Stephen Lawton
Clinton Lewis
Gordon McLay
Frank Rodolf
James Shiba
Lorraine Summers
Harold Van Horn.

—13

Glee Club

First Tenors
Leslie J. Bennett
Sidney C. Green
Noble C. Lippincott
Harold A. Van Horn

Second Tenors
Harold O. Burdick
Paul L. Emerson
Howell S. Randolph
Dale R. Van Horn

First Basses
Franklin L. Allen
Ralph R. Holliday
Victor H. Hurley
Leman H. Stringer

Second Basses
G. Wayland Coon
Stanley R. Horwood
John H. Thorngate
Alfred E. Whitford

Treble Clef

First Sopranos
Adelaide J. Bartholf
Alberta Crandall
Beth M. Davis
Pearl R. Gaarder

Second Sopranos
Edna L. Clement
E. Grace Gould
Arlouine Persels
Hannah Shaw
Ruth V. Stillman

First Altos
Geneva E. Bennett
Marjorie J. Burdick
Gertrude Rodolf
Ruby Van Horn
Dorothy K. Wheeler

Second Altos
Grace L. Babcock
Beth A. Bingham
Myrtelle Ellis
Irene Thomas

SUMMARY OF THE CATALOGUE OF STUDENTS

College

Senior Class	10
Junior Class	5
Sophomore Class	28
Freshman Class	46
Special Students	7
Total	96

Academy

Fourth Year	5
Third Year	7
Second Year	4
First Year	7
Special Students	3
Total	26

School of Music

Harmony	7
Pianoforte	44
Voice Culture	20
Violin	9
Singing Class	13
Glee Club	16
Treble Clef	18
Total in School of Music counted once	98
Total in School of Music not in the College or in the Academy	50
Total in the Institution	172

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1917/18

MILTON COLLEGE

Catalogue

1917-1918

MILTON COLLEGE

Catalogue

1917-1918

CALENDAR FOR YEAR 1918-1919

1918		
Sept. 16-18	Monday-Wednesday	Registration days
Sept. 19	Thursday	First semester begins
Nov. 28-Dec. 1	Thursday-Sunday	Thanksgiving recess
Dec. 19	Thursday	Sophomore and Junior orations due
Dec. 20	Friday	Christmas recess begins
1919		
Jan. 6	Monday	Recitations resumed
Jan. 16	Thursday	Day of prayer for colleges
Jan. 20-24	Monday-Friday	Registration days for second semester
Jan. 27-31	Monday-Friday	Final examinations, first semester
Feb. 3	Monday	Second semester begins
Mar. 13	Thursday, 8 P. M.	Oratorical contest
Mar. 26-Apr. 1	Wednesday-Tuesday	Spring recess
Apr. 2	Wednesday	Recitations resumed
May 30	Friday	Memorial Day
June 2-6	Monday-Friday	Final examinations, second semester
June 6-12	Friday-Thursday	Commencement Week

COMMENCEMENT WEEK, 1918

Commencement week in 1918 will fall on June 7-13, one week earlier than was announced in the catalogue one year ago.

BOARD OF TRUSTEES

Office expires in 1918

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	FRED C. DUNN,	Milton
Ass't	Supt. JAMES B. BORDEN, M. A.,	Madison
	JAMES H. COON,	Milton
	TRUMAN A. SAUNDERS,	Milton
	GEORGE W. POST, M. A., M. D.,	Chicago, Ill.

Office expires in 1919

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	ALLEN B. WEST, M. A.,	Milton Junction
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	BENONI I. JEFFREY,	Milton
	GEORGE E. CROSLEY, M. D.,	Milton

Office expires in 1920

	E. STILLMAN BAILEY, M. A., Ph. D., M. D.,	Chicago, Ill.
	C. EUGENE CRANDALL, M. A., Ph. D.,	Milton
Hon.	PAUL M. GREEN,	Milton
	WALTON H. INGHAM, Ph. B.,	Fort Wayne, Ind.
	ALEXANDER C. DUNN, B. S.,	Indianapolis, Ind.
	ALBERT S. MAXSON, M. D.,	Milton Junction
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	JUSTIN H. BURDICK, M. D.,	Milton

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WALTON H. INGHAM, Financial Agent.

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Superintendant of Grounds and Buildings

JESSE H. LIPPINCOTT

Janitor

MARTINE M. LANPHERE

FACULTY

WILLIAM CLIFTON DALAND, M. A., D. D., President, Professor of the English Language and Biblical Literature.

B. A., Brooklyn Polytechnic Institute, 1879; Student, Union Theological Seminary, New York City, 1883-'86; M. A., Alfred University, 1887; D. D., Milton College, 1896; D. D., Alfred University, 1903; Organist and Teacher of Music, Elizabeth, N. J., and Brooklyn, N. Y., 1874-'86; Pastor, Leonardsville, N. Y., 1886-'91; Pastor, Westerly, R. I., 1891-'96; Pastor, London, England, 1896-1900; Pastor, Leonardsville, N. Y., 1900-'02; President, Milton College, since 1902.

ALBERT WHITFORD, M. A., Professor Emeritus of Mathematics and Astronomy.

WALTER DAVIS THOMAS, M. A., Professor of Greek and History.

Graduate, Union Academy, Shiloh, N. J., 1873; Teacher Public Schools, 1873-'84; B. A., Milton College, 1884; M. A., Milton College, 1887; Professor of Greek, Milton College, 1884-1916; Graduate Student, Special work in Greek, Summer Term, University of Chicago, 1897; Student in Greek and History, Summer Sessions of University of Wisconsin, 1901 and 1903; Professor of Greek and History since 1917.

ALFRED EDWARD WHITFORD, M. A., Professor of Mathematics and Physics.

B. A., Milton College, 1896; M. A., Milton College, 1901; M. A., University of Wisconsin, 1911; Assistant Principal, Waupun High School, Waupun, Wis., 1896-'97; Principal, Milton Public School, 1897-'99; B. A., University of Chicago, 1900; Graduate student in Physics, University of Chicago, 1900-'01; Professor of Physics and Assistant in Mathematics, Milton College, 1901-'10; Assistant in Mathematics, University of Wisconsin, 1910-'11; Professor of Mathematics and Physics, Milton College, since 1911.

Note—With the exception of the President, professors are named in the order of their appointment.

ALBERT ROGERS CRANDALL, M. A., Ph. D., Sc. D., Professor of Natural History and Physiology.

B. A., Milton College, 1873; M. A., Milton College, 1876; Ph. D., Milton College, 1885; Sc. D., Agricultural and Mechanical College, Kentucky, 1917. Entered the Academic Department of Alfred University in 1858. His studies were interrupted by the Civil War. After nearly two years and a half of service in two enlistments, he was mustered out with the rank of First Lieutenant. After studying three years at Milton College and teaching one year as principal of Big Foot Academy, Walworth, Wis., was special student in the Museum of Comparative Zoology at Harvard University during five years, taking special studies in geology, paleontology, and zoology with botanical studies at the Botanical Garden, and also art studies for one year at the Boston Lowell Institute Evening School. During these years the long summer vacations were spent in field studies as a collector for the Museum of Comparative Zoology. These studies were extended over parts of Rhode Island, Massachusetts, and Maine; to the Ottoway region in Canada; to western New York, and along the Appalachian belt from the Catskills to Northern Georgia and Alabama. Appointed Assistant of Prof. N. S. Shaler of Harvard University in the work of the Kentucky Geological Survey, 1873. Instructor in the Department of Natural History of the Agricultural and Mechanical College of Lexington, Kentucky, 1873-'74. Three years later was appointed Professor. Instructor in the Summer School of Geology organized by Professor Shaler at Cumberland Gap, Kentucky and Virginia, in 1875. Continued work on the Geological Survey in conjunction with his duties as professor of Natural History until 1893. Professor of Natural History in Alfred University, 1896-1903. Professor, Natural History, Milton College since 1903. Formerly fellow of the American Association for the Advancement of Science and of the Geological Society of America. Member of the Advisory Council on Religious Congresses in connection with the World's Columbian Exposition, Chicago, 1893. Among his published works are reports on the Geology and Botany of Eastern Kentucky, Vols. 1, 2, and 4, second series, and Vol. C of later reports, besides many papers and addresses.

DAVID NELSON INGLIS, M. A., Professor of Romance Languages.

B. A., Milton College, 1905; M. A., University of Wisconsin, 1908; Principal of Graded School, Marquette, Wisconsin, 1905-'07; Student, University of Wisconsin, 1907-'08; Assistant in Romance Languages, University of Wisconsin, 1908-'10. Professor of Romance Languages, Milton College, since 1910.

LEMAN HUFFMAN STRINGER, B. A., Professor of Public Speaking, Instructor in Voice and Physical Training.

B. A., Milton College, 1909; Teacher, West Allis High School, 1909-'12; Professor of Public Speaking, Milton College, since 1912.

HARRIS MERRILL BARBOUR, M. A., Professor of Philosophy and History.

B. A., Brown University, 1906; B. D., Newton Theological Institution, 1909; Minister, Arlington Heights, Mass., 1909-'11; Graduate Student and Assistant in Philosophy, Brown University, 1911-'13; M. A., Brown University, 1913; Professor of Philosophy and History, Milton College, since 1913.

JOHN NORTON DALAND, M. A., Professor of Latin.

B. A., Milton College, 1913; M. A., University of Wisconsin 1914. Professor of Latin, Milton College, since 1914.

PAUL CANFIELD SAUNDERS, B. S., Professor of Chemistry.

B. S., Alfred University, 1914; Assistant in Chemistry, Alfred University, 1913-'14; Instructor in the Department of Science, Connellsville, (Pa.) High School, 1914-'16; Graduate student in Chemistry, Summer Session of Columbia University, 1916; Graduate student in Chemistry, Summer Session, University of Wisconsin, 1917; Professor of Chemistry, Milton College, since 1916.

Mrs. ANNA SOPHIA CRANDALL, M. A., Instructor in German.

B. A., Milton College, 1881; M. A., Milton College, 1885; Instructor, German Language and Literature, Milton College, 1881-'82; Student in Hebrew Language and Literature at Morgan Park Baptist Theological Seminary, 1882-'86; Studied German in Berlin, Germany, 1899-1900; Instructor in German, Milton College, since 1900.

Miss MABEL MAXSON, M. A., Instructor in English Literature.

B. A., Milton College, 1911; M. A., University of Wisconsin, 1912; Instructor in English Literature, Milton College, since 1912.

FRANK GREGORY HALL, B. A., Instructor in Biology.

B. A., Milton College, 1917.

Captain JACOB E. KINZER, Instructor in Military Training.

Miss ALICE RUTH BOYD, Assistant in English.

Miss ISABELLA BROWN, Assistant in Mathematics.

Miss ALBERTA CRANDALL, Instructor in Piano Playing.

Student, Milton College and School of Music, 1893-'98; Certificate Pianoforte Course, 1908; Student and Teacher of Piano, Alfred University 1898-1901; Special student under Dr. W. S. Matthews of Chicago, 1901; Student, New England Conservatory of Music, Boston, Massachusetts, 1902-'03; Student, New England Conservatory of Music, pupil of Carl Baermann, 1907-'08. Instructor in Piano Playing, Theory, and History of Music, Milton College, since 1903.

Miss MABEL MAXSON, M. A., Librarian.

Prof. A. E. WHITFORD, M. A., Registrar.

GENERAL INFORMATION

Historical Statement

Milton College is situated in the village of Milton, Rock County, Wisconsin, on the Prairie du Chien division of the Chicago, Milwaukee and St. Paul Railway. At Milton Junction, one mile west of Milton, there is also connection with the Chicago and Northwestern Railway.

Milton College is the outgrowth of a select school opened in the village of Milton in the year 1844. In the year 1848 it was incorporated as Du Lac Academy, which in 1854 was reorganized under the name of Milton Academy. In April, 1867, its charter as a college was granted by the state, and the first class was graduated in 1870.

It has always been a co-educational Christian college of liberal culture. Its ideals have been: honest work of the highest character well and thoroughly performed; the encouragement of self-support among its students; a system of government through supervision by the faculty and co-operation by the students, in which personal honor and good will together with loyalty to the high character of the college have been the chief motives.

Although from its earliest history Milton College has had the closest sympathetic relation with the denomination known as Seventh Day Baptists, who have been its main supporters, nevertheless no sectarian tenets are taught in its classes, and students of all religious faiths are received upon equal terms and allowed the free exercise of their beliefs.

Daily chapel exercises are held which students are expected to attend unless they have conscientious scruples against so doing. The college Y. M. C. A. and Y. W. C. A. hold weekly meetings both separately and in conjunction. The religious and moral atmosphere at Milton has always commanded the sympathy and respect of all Christian people who have been at all acquainted with the college.

Government of the Students.

Students who enter Milton College are expected to observe the rules and regulations that are there recognized as governing the student body. These regulations have grown up during many years and have the force of tradition. Examples of these are: the absolute prohibition of the use of intoxicating liquors, under pain of expulsion; the prohibition of profane and obscene language at all times and in all forms; and the prohibition of card playing, social dancing, and the use of tobacco on the grounds or in the buildings of the college. These rules have from time to time been modified and reduced to the form of a code of simple laws. These are not printed in this catalogue, but are included in the catalogue of 1916-1917, a copy of which may be obtained at the college office.

Recent modifications of regulations in force have been made with the co-operation of the Student Council, a representative body of students elected at the beginning of every year. The Student Council serves to mediate between the faculty and the students as a body and is often called by the President of the college when he wishes to ascertain the attitude of the students on any question of importance to them. At the beginning of the year each college class chooses a class adviser from the faculty. The adviser stands in a close relation to the class and deals with individual students in a personal way, mediating between the students of each college class and the faculty.

The government of the students is by the Faculty with the President as its executive head making use of the co-operation of the students. It may be called "Faculty government with student co-operation," in contrast with "Student self-government." There is a form of self-government in operation in Goodrich Hall, the Women's Dormitory, by which the women in the Hall make their own rules and regulations, being directly responsible through their president to the President of the college.

The "Honor System," technically so called, is not observed.

Faculty supervision is the rule; but personal honor and good will are present in all dealings between teachers and students, who are alike jealous of the honor of Milton College.

The College Year.

The college year, September to June, consists in general of two semesters of eighteen weeks each. There is a vacation of a fortnight at Christmas and a shorter vacation near the end of March. The second semester begins the first week in February. Classes meet on five days of the week only and are held during periods of fifty-five (55) minutes each, changing every hour from 8 to 10 a. m., and from 10:30 a. m. to 4:30 p. m. Chapel exercises are held at 10 a. m. Examinations are held during the last week of each semester and tests are held at frequent intervals. For the dates of the next college year see the calendar, page 3 of this catalogue.

Admission of Students.

Students are admitted either as regular or special students. Regular students are those fully prepared for entrance and who in college pursue courses leading to the degree of Bachelor of Arts. Such are classified as members of one or another of the four college classes. Special students are either fully prepared students whose studies in college elected by them are not such as to warrant their classification as regular students, or else students who are not fully prepared, but who are completing their preparation in sub-freshman classes, of which some are ordinarily maintained, partly to meet the needs of such students and partly to afford an opportunity for college students to obtain practice in teaching. These classes are usually taught by college seniors, under the supervision of members of the faculty.

A student applying for admission should present himself on one of the days appointed in the calendar for registration. Admission at any other time must be regarded as exceptional. He should present a certificate signed by a proper officer of the school from which he comes. Blanks for this purpose may be

obtained at the college office. A student coming from another college should present a record of his work and a certificate of honorable dismissal from the college which he has attended. The best time for transfer is at the end of the sophomore or beginning of the junior year. To be graduated a student should spend at least one year, preferably two, in residence.

Entrance Examinations.

Entrance examinations are not required of graduates of any high school or academy which is on the accredited list of preparatory schools published by the University of Wisconsin. Other students may be called upon to submit to entrance examinations in part or in all of the subjects offered for entrance. Entrance conditions may be made up in sub-freshman classes.

An entrance examination in English is required of all entering freshmen, no matter from what school they come. Those who fail to pass this examination enter a sub-freshman class in English. Ordinarily it is impossible for a student who fails in this examination to finish all his freshman work during his first year in college.

General Fees per Semester

Tuition fee, for those whose work receives credit of more than ten hours per week	$20.00
Tuition fee, for those whose work receives credit of ten hours per week or less	15.00
Tuition fee, for those whose work is mainly of sub-freshman grade	15.00
Incidental fee, charged to all students, to cover use of Library, Gymnasium, and so forth	5.00
Fee for supervision of a study pursued outside of a class	$1.00 to 5.00
Fee for a special examination	1.00
Fee for physical examination, first semester	.50
Fee for physical examination, second semester	.25

Student Tax, for the support of the Athletic Associ-

ation, the Oratorical Association, and the Milton College Review, entitling the student to free admission to all regular games, contests, and debates, and to a subscription to the Milton College Review for one semester---------- 2.50

Rent for locker in Gymnasium ---------- .50

Locker rent is usually collected for the year at the beginning of the first semester. The rent for the second semester is refunded if the key is given up at the end of the first semester. A deposit is required of twenty-five cents for the key to the locker.

Laboratory Fees

Biology 1	$4.00
Biology 3 or 4	3.00
Physics 1	4.00
Chemistry 1	4.00
Chemistry 2 or 3	5.00
Chemistry 5	6.00
Chemistry 6	3.00

In addition to the laboratory fees a deposit of three dollars per year is required for Chemistry 5 and two dollars for all other laboratory courses in chemistry. The amount refunded at the end of the year is determined by the department of chemistry, and will depend on the chemicals used, and the care exercised by the student in avoiding breakage of apparatus.

Diploma Fee

A diploma fee of five dollars is charged to every one who receives a degree from the college. This fee is charged to graduates in the second semester of their senior year.

Payment of Fees

All fees are payable in advance.

Before entering classes at the beginning of a semester, students are required to visit the Treasurer of the college and either settle their accounts or make arrangements for the settling of the same.

A Late Registration fee of two dollars ($2.00) is charged to those who do not present themselves for registration and the satisfactory arrangement for the settlement of their accounts either during the days appointed for registration or on the first day of the semester. See calendar. The late registration fee is charged to those who enter classes at any other time than the beginning of the semester.

Refunding of Bills Paid

Imperative absence of half a semester or more caused by illness or other necessity may be a ground for the refunding of tuition or other fees paid by a student. On proper advice from the faculty the Treasurer will in such a case refund half the amount of the fees.

Rooms and Board

Rooms for women are furnished in Goodrich Hall with stoves, bedsteads, tables, and chairs. Beds and bedding with other furniture must be supplied by the students. The charge for each student is $8.00 per semester. An additional charge, usually $2.50 per semester, is made for electric light.

Students who wish to board themselves may hire convenient rooms in private houses at about the same rate. Rooms and board may be obtained in private families at from $5.00 to $6.00 a week. Table board in club or private family varies from $4.00 to $5.00 a week.

Estimated Expenses per Year

Tuition, Incidentals, and Fees	$ 60.00 to $ 90.00
Board at $4.00 to $5.00 per week	$144.00 to $180.00
Rooms at $8.00 to $12.00 per semester	$ 16.00 to $ 24.00
Fuel and Lights $10.00 to $15.00 per semester	$ 20.00 to $ 30.00
Laundry	$ 10.00 to $ 15.00
Text-books etc.	$ 20.00 to $ 26.00
	$270.00 to $365.00

The minimum expenses for a year of thirty-six weeks to a student who boards himself are about $250.00; to one who boards in a club, about $275.00; to one who boards in a private family, about $300.00. These estimates do not include money for personal necessities or for recreation or cultural wants varying with the taste of the individual student.

Opportunities for Self Support

Industrious students, both men and women, can generally find opportunities in the village and vicinity, during semesters and vacations, to earn sufficient funds to meet in part their expenses. A large number aid themselves in this way every year. Most graduates of the college have been students of limited means who earned their way by manual labor, by teaching in the public schools, or by engaging in other occupations.

Free Scholarships

Milton College offers a free scholarship for one year to the graduate having the highest honors in his class in each high school in the State of Wisconsin that requires a four years' course of study. A free scholarship for one year may also be offered to the graduate having the highest honors in his class in such a high school in a neighboring state as the Board of Trustees may specially designate.

Free scholarships for one year are also offered to the students belonging to the Freshman, Sophomore, and Junior classes, each of whom shall have completed the year with the highest honors.

Certain endowed scholarships have been for a long time established, the beneficiaries of which are appointed by those named by the founders of the scholarships. Students are now the beneficiaries of such scholarships, designated as follows:

The Mary F. Bailey Scholarship.
The Jennie B. Morton Scholarship.
The Ezra Crandall Scholarship.
The Salem College Scholarship.

The Class of 1907 Scholarship.
The Rev. Oscar Babcock Scholarship.
The Rev. Edwin Shaw Scholarship.
The Albertus D. Crumb Scholarship.
The William H. and Mary E. Rich Scholarship.

Recently other endowment scholarships have been established, beneficiaries of which are appointed by the Trustees of the college.

All scholarships cover tuition and incidental fees, but not laboratory fees, board, room, or other expenses. Some of the scholarships are awarded only on certain conditions, which will be made known upon application.

Exceptional Tuition Fees

Half the usual tuition fee is charged to a student who is the son or daughter of a minister of religion or to a student who is preparing for the ministry in any religious denomination. Tuition fees are remitted entirely to sons or daughters of members of the faculty. Other fees are charged in these cases.

Buildings

Milton College has five buildings devoted to various purposes. The Main Building contains the offices, the chapel, and many recitation and lecture rooms. The Whitford Memorial Hall contains the Library and the lecture rooms and laboratories for physics, chemistry, and biology. In this building also are the rooms for the gentlemen's literary societies. The other buildings are Goodrich Hall, the ladies' dormitory, containing a room for a ladies' literary society; the Auditorium Gymnasium, situated south of the buildings mentioned; and the President's Home on an eminence further south of the buildings. The campus fronts on College Street in the village of Milton.

The Library

The College Library consists of what were originally the Daniel Babcock Library, the Orophilian Library, the Iduna Library and the Philomathean Library. These Libraries have

been consolidated and are under the general management of the College Librarian, appointed by the Board of Trustees.

The Library now contains more than 11,000 books and 500 pamphlets newly classified and provided with a dictionary card catalogue. There are also several hundred other pamphlets and volumes of unbound magazines.

Books or magazines may be borrowed by students and residents of Milton subject to the usual library regulations. The library is open every college week-day from 8:00 A. M. to 12:30 P. M., and from 1:30 P. M. to 4:30 P. M., except during the chapel exercises, that is from 10:00 to 10:30 A. M. It is also open to the public on Tuesday and Thursday afternoons during the summer vacation. During the time college is in session the Library is also open on Monday and Wednesday evenings from seven till nine o'clock.

Apparatus

The institution is well equipped with apparatus for the student's use in laboratory work in the several courses described under "Departments of Instruction." For the class in surveying, an excellent transit, a compass, a rod and a surveyor's chain are provided. The Chemical Laboratory in the south half of the second story of the Whitford Memorial Hall is well stocked with everything needful for complete work in General, Analytical, and Organic Chemistry. The Physical Laboratory is very conveniently located in the south half of the first story. The apparatus of this department has been recently very largely increased and is now full and complete. The Biological department in the second story over the Library is provided with the best Bausch & Lomb microscopes.

Cabinets

The cabinets illustrative of Mineralogy, Geology, and Paleontology, embrace over four thousand specimens, and exhibit fairly the materials and the formations of the rocks found in the state. There has been presented to the college the W. P. Clarke

collection of stone and copper instruments, some of which are rare types belonging to the different periods of the Prehistoric Age, found in the immediate vicinity, elsewhere in our country, and in foreign lands. The college has obtained and preserved over eighteen hundred species of plants, which grow principally in this state. There have been gathered specimens of insects, fishes, birds, and mammals, typical of the groups of animals to which they belong; and a room with convenient cases has been set apart for their exhibition and use. Special students of the college share in the collection and classification of type forms in the several departments.

The Literary Societies

These are four in number, the Orophilian Lyceum, the Philomathean Society, the Iduna Lyceum, and the Miltonian Lyceum. The first two are for men and the third and fourth are for women. All of these organizations hold their sessions on Saturday evening during the college year. At the end of each year, during Commencement Week, the societies present public programs. Excellent work has been done by each of these societies during the past year. Every student is urged by the faculty to become a member of some one of these organizations, because exceptional opportunities are offered to those who desire to improve in writing, in public speaking, in debating, and in a knowledge of parliamentary practice.

Christian Associations

The first religious organization of the college was established in 1856 for both men and women and continued so until May, 1907. At that time it was reorganized as a Young Men's Christian Association and a Young Women's Christian Association, both affiliated with the state and national organizations. They are absolutely non-sectarian in their organization and management. They hold three prayer and conference meetings a week during the college year. One of these is held on Friday evening and is open to both men and women. The other two

meetings are held on Tuesday evening, one for men and the other for women. The associations usually hold three socials during the year, viz.: one at the beginning of the year, the second near the end of the first semester, and the third just before the spring recess. At these socials music is rendered, papers are read, and addresses are presented. An effort is also made to introduce new students to the older ones, and all are invited to join the associations. The moral and religious influence of these organizations on the student body and on the spirit and life of the institution cannot be overestimated.

Language Clubs

These clubs usually hold meetings once a month. These are the German Club, the Classical Club, and the English Club, devoted, as their titles indicate, to the cultivation of German, Classical, and English studies.

The Athletic Association

This organization is composed of all students in the institution, and has charge of all the athletic games and contests connected with it. The contests arranged by the Association are subject to the rules governing athletics. Tennis in the autumn and spring, basket-ball in the Gymnasium during the winter, and baseball in the spring, are the principal games. Early in June of each year the Asssociation holds the annual Field Day, at which records are made in the several field events.

The Oratorical Association

This organization is composed of the members of the four Literary Societies, and the Faculty. The officers are president, vice-president, secretary, and treasurer, chosen annually, one from each of the societies. These officers together with the President of the college and the faculty of the English department constitute an executive committee which has general charge of the business of the Association. An oratorical contest

is usually held shortly before the spring recess. Debates are also arranged between classes or with other colleges.

The Alumni Association

The Alumni Association of Milton College was organized in 1870, and its membership consists of those persons on whom the Institution has conferred honorary degrees, as well as those former students who have been graduated in all the courses of the College and of the old Academy. To this number should be added six distinguished former students who have been elected honorary members of the Association. This organization holds its annual meeting during Commencement Week and at this time a banquet is held. The officers of the Alumni Association for this year are:

President—Hylon T. Plumb, '96; First Vice-President—Rev. L. C. Randolph, '88; Second Vice-President—Miss Anna Post, '16; Third Vice-President—Prof. A. E. Whitford, '96; Fourth Vice-President—F. G. Hall, '17; Secretary-Treasurer, L. H. North, '08.

The Milton Forward Movement

Early in the college year, 1913-14, a movement was initiated among the students to co-operate with the Trustees of the college in all efforts to build up the institution, to increase the number of students in attendance, to foster a spirit of amity and good-will between the students and the community, and in all ways to work for the prosperity of the institution. At its inception this was known as the "Forward Movement." It is significant of the character of the student body of the college.

Students' Meetings

All students' meetings and social gatherings are held subject to the approval of the President of the college, which must be obtained before any meeting is announced or any date set for the same. All social meetings are under the supervision of chaperons approved by the faculty. Class meetings are supervised by the class advisers. It is expected that evening meetings shall close at half past ten o'clock.

Milton College Review

The Milton College Review was formerly a monthly magazine, but is now a weekly newspaper, edited by students under the supervision of the faculty. The price of the paper is $1.50 a year. The cost of maintaining the paper is defrayed by advertisements, subscriptions, and a share of the student tax.

THE COLLEGE COURSE

Entrance Requirements

Every entering freshman must have pursued fifteen (15) units of preparatory work above the eighth grade in school. The term unit means the equivalent of five recitations a week for one year in one branch or closely allied branches of study. These should be as follows:

Mathematics (algebra 1, geometry 1)	2 units
English	3 "
History (ancient history 1, or medieval and modern history 1, or United States history 1, or English history 1)	1 "
Science (botany 1, or botany and physical geography 1, or chemistry 1, or physics 1, or physiology or physical geography 1, or zoology 1)	1 "
Language (Latin 4, or two languages each 2)	4 "
	11 units

Any four units from the following:

One language	1 or 2 units
English	1 or 2 "
History	1, 2, or 3 "
Civics and economics	1 "
Mathematics	1 "
Science	1, 2, or 3 "
Optional subjects	2 "

Students may be admitted with less work in language, but in that case they will be restricted in their choice of college studies. If fewer than two units of language are offered, more than the usual work will be required for their college course. See under "Restrictions and Special Requirements," page 28. A single unit of one language is not regarded as a complete element of a preparatory course. Students whose preparation is

incomplete may enter sub-freshman classes and thus complete their preparation. Such are classified as special students till their work is sufficient to warrant their classification in a regular college class.

Course of Study

A course of study in the college is pursued during four years and includes one hundred and twenty-eight (128) semester hours or credits; one hundred and twenty (120) of these are in class work, four (4) in physical training, and four (4) are covered by the graduating thesis. A semester-hour or college credit is the equivalent of one hour of recitation or lecture per week for one semester. Two hours of physical training or of laboratory work per week usually receive credit as one semester-hour. In the arrangement of his course of study a student should not plan to do less than fourteen (14) or more than seventeen (17) hours a week. No student will be permitted to register for more than eighteen (18) semester-hours in one semester except by permission of the faculty obtained in advance. See under "Restrictions and Special Requirements." page 28.

Grades

The work of students is graded on a scale of one hundred. The passing grade for a single study is seventy (70) per cent. For convenience grades between certain limits are designated by letters. Grade A means excellent work and represents a standing of 93 to 100 per cent; grade B, good work, 85 to 92 per cent; grade C, fair work, 77 to 84 per cent; grade D, poor work, 70 to 76 per cent. Grade D is the passing grade for credit.

But in addition to the requirement of one hundred and twenty-eight semester-hours for a course a candidate for graduation must secure at least one hundred and twenty-eight grade points. The grade points are awarded as follows:

For grade A, three points for each semester-hour.
For grade B, two points for each semester-hour.

For grade C, one point for each semester-hour.
For grade D, credit but no points.

The maximum number of points that can be secured in a course is 384; the minimum must be 128. It is evident that an average grade of C is required for graduation. A student who falls behind in the required number of points is ineligible for graduation. Hence while seventy per cent is the passing grade for a single study, the average passing grade for the whole course is seventy-seven (77) per cent.

Required Work

Of the one hundred and twenty semester-hours of class work, sixty-four (64) semester-hours must be taken in certain subjects that are required of all candidates for a degree. These are known as required subjects. The remaining fifty-six (56) semester-hours are elective. The required work is as follows:

Engish	6	semester-hours	
Public Speaking	4	"	"
Mathematics	6	"	"
Language	16	"	"
History	6	"	"
Science	10	"	"
Psychology and allied Studies*	16	"	"
Total Required Work	64	"	"

Those who wish to prepare for teaching must also take in the department of Education at least nine (9) semester-hours, of which at least two (2) must be practical work in teaching or teaching combined with class work in methods of teaching, usually their major subject. For an explanation of what is meant by a major subject see under "Elective Work," page 26.

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*These are enumerated under the department of Philosophy. See under "Departments of Instruction," page 37.

Elective Work

By the statement that fifty-six semester-hours of the class work of the college course are elective is not meant that studies may be freely chosen without plan or system. The studies in college may be roughly divided into three groups as follows:

I. Language and Literature.

II. History, Social Science and Philosophy.

III. Natural Science and Mathematics.

At the beginning of the sophomore year, a candidate for a baccalaureate degree must, with the advice of the President, choose a major subject from one of the above groups and a minor subject from another department of the same group; provided, however, that a suitable language may be chosen as a minor subject in connection with any major and that mathematics may be chosen as a major subject in connection with a minor in either group I. or group II.

The work in a student's major subject must be consistently and consecutively pursued under the direction of the professor in charge of the department. In his major subject the student is required to do not less than sixteen (16) nor more than thirty-six (36) semester-hours exclusive of the thesis. Of these six (6) semester-hours should be completed before the junior year. The thesis is usually prepared in the senior year and must be a creditable piece of scholarly work in the major subject.

What may be counted as part of the major work is determined by the department in question, but certain studies cannot be counted; as German B, Latin A and B, English 1, and Mathematics 1 and 2. See "Departments of Instruction."

The minor subject is a related subject and one which when pursued is of benefit to the student in the consistent study of his major subject. It may be determined by the professor in charge of the major work. Usually ten (10) semester-hours should be taken in the minor subject.

Required subjects other than those excluded above may, at the discretion of the department, be counted as part of either the major or minor work.

Examples of subjects often chosen as major subjects are English, Latin, German, mathematics, biology, chemistry, and so forth. Rarely, by direction of a department, two subjects may be combined for major work; as, for example chemistry and physics.

Arrangement of Courses

The following table will serve to illustrate how the required and elective work may be combined in a course of study for four years:

Freshman year		
	English 3 hours per week	6 s.-h.
	Mathematics 3 hours per week	6 s.-h.
	Two languages each 4 hours per w'k	16 s.-h.
	Physical training 2 hours per week	2 s.-h.
		30
Sophomore Year		
	History 3 hours per week	6 s.-h.
	Psychology 3 hours per week	6 s.-h.
	Science usually 10 hours a week	10 s.-h.
	Physical training 2 hours per week	2 s.-h.
	Elective	8 s.-h.
		32
Junior Year		
	Logic and philosophy 3 hours per w'k	6 s.-h.
	*Public speaking 2 hours per week	4 s.-h.
	Elective 11 hours per week	22 s.-h.
		32

*Public speaking may be taken in the sophomore year in addition to the other work; this is advised if the student can arrange time for it then.

Senior Year----------

Ethics 2 hours per week----------	4 s.-h.
*History of Education----------	4 s.-h.
*Pedagogy, including practical work	5 s.-h.
Elective class work ----------	17 s.-h.
Thesis, given credit always as----	4 s.-h.
	34

The foregoing table is intended to serve as a practical guide to the student in arranging his work. It will be noted that no elective work is assigned to the freshman year. However, a student making his major in science may well take his required science then and defer one of his languages till the sophomore year. But the required work in language should all be completed, if possible, before the junior year. It should never be postponed till the senior year. Those who enter with insufficient preparation in language should exercise especial care in the arrangement of their work. Such must heed advice given to them when registering for their studies.

Restrictions and Special Requirements

After a student's studies are registered at the office no change in these will be allowed without permission of the President of the college.

Permission to register for more than eighteen semester-hours in the same semester will not be granted in any year to a student whose average standing during the preceding year has not reached ninety per cent.

A student who offers only two units of language for entrance must take twenty-six (26) semester-hours of language in his college course. One who offers no language for entrance

*Required of those who wish to teach. Other students take twenty-six (26) semester hours of elective subjects instead of seventeen (17).

Note—In explanation of enumeration of credit for science and physical training see under "Course of Study" page 24.

must take thirty-six (36) semester-hours of language in college ten (10) of which will be without credit; that is, the course of such a student will contain ten additional semester-hours, over and above the usual 128.

Any student who desires to pursue a study outside of a class and receive credit therefor must first obtain special permission from the faculty. Such work must be carried on under the supervision of the professor in charge of the department in which the study is pursued. The fee for such supervision is noted in the table of fees (See page 13.) and must be paid with the other fees at the office.

Absences

Absence from any class exercise, whether recitation, lecture, test, or final examination, shall constitute a "cut."

If no cuts are taken in a course and the student's work is of passing grade, he will be credited with the number of semester-hours specified for that course and as many tenths of an hour in addition. Thus a five-hour course with perfect attendance would give the student 5.5 hours; a three hour course, 3.3 hours, and so with others.

Each cut automatically deducts one tenth of an hour from the total credit for perfect attendance.

No cuts shall be canceled or excused by a teacher. All omitted work shall be made up to the satisfaction of the teacher and all required tests or examinations taken at his convenience.

A limit to cutting in any particular course may be set by the teacher with the approval of the faculty; and, if a student cuts beyond that limit, the course may be canceled by vote of the faculty.

In cases of absence due to long continued illness or in other exceptional cases, credit lost may be restored by vote of the faculty, not to exceed the number of semester-hours specified for the course.

At the discretion of any teacher three cases of tardiness may be counted as a cut.

Absence on the first day of the semester, the last day before a recess, or the first day after a recess shall be counted as two cuts.

As will be seen, deficiencies due to excessive cutting can only be made up by faithful attendance or by additional hours of subsequent work.

No credit for any course will be given for less than one semester-hour.

Attendance at chapel is required with an allowance of ten cuts a semester. Each cut in excess of ten automatically adds one-tenth of a semester-hour to the requirements of the student's college course. Individual cases of non-attendance at chapel on religious or other grounds will be dealt with separately by the faculty.

Examinations

College seniors whose class standings are above ninety per cent during the second semester may be excused from taking final examinations in June.

A student whose final standing in any study is sixty-five per cent or more, but below the passing grade, is conditioned in that study and may at an appointed time within a year take an examination to remove the condition.

For every special final examination—that is, for every final examination held for the benefit of a single student—a fee of one dollar is charged. See table of Fees.

Degrees

All graduates from Milton College receive the degree of Bachelor of Arts.

Orations

Each student in the sophomore and junior year is required to produce an oration. These orations must be finished and

handed to the Professor of Public Speaking before the Christmas recess. They must be delivered either in the annual contest of the Oratorical Association of the college, or in one of the preliminary contests, or in some public exercise arranged by the faculty and held on a date earlier than that of the annual contest.

Theses

Theses must be typewritten and furnished for the college library by the Friday before Commencement. Diplomas will be withheld from students that fail to comply with this requirement.

Teachers' Certificates

According to recent legislation all applications by college graduates for life certificates to teach in the state of Wisconsin are to be considered solely upon their merits. Any graduate desiring to obtain such a certificate must file an application setting forth the studies he has pursued, duly certified by the college from which he is graduated. He may then be required to take an examination in certain subjects. If the application is satisfactory or if the examination is duly passed, a certificate will be granted after two years' successful experience in teaching and the maintenance of a good moral character.

For specially required studies see under "Required work," page 25. Also see note to table under "Arrangement of courses," page 28.

DEPARTMENTS OF INSTRUCTION

English

1 Freshman English.

Lectures on English composition. Exercises in paragraph and theme writing, directed toward the formation of an effective prose style. Text-books: Newcomer's *Elements of Rhetoric* and Lewis's *Specimens of the Forms of Discourse.* Required of all college students in the Freshman year. *Three hours a week throughout the year.*

Note—The work in this course consists of the following parts:

a) Class exercises or lectures three times a week.

b) Short themes based on exercises in Lewis's *Specimens of the Forms of Discourse* twice a week.

c) Weekly translations from a foreign language.

d) Longer bi-weekly themes based on the required readings.

e) Required readings: (1) A book of general reading and a standard novel, (2) Winchester's *Principles of Literary Criticism*, (3) Matthew Arnold's *Essays in Criticism*, selected.

2 Sophomore Composition.

Narrative composition. During the recitation hour the class pursues the study of the American short story. Compositions are required weekly or fortnightly. Elective. *Two hours a week throughout the year.*

3 a Elementary Anglo-Saxon.*

An elementary course with a view to the mastery of the grammar and the reading of normalized West Saxon prose, especial attention being given to the derivation of words. Text-book, Cook's *First Book in Old English. Two hours a week in the first semester.*

*Courses 3 to 9 have special reference to the history and development of the English language. Course 3a is required in the sophomore year of those choosing English as a major. It is advised that English students pursue consecutively either courses 3a, 3b, 4, 5, and 6 or 3a, 7, 8, and 9. The most of these are two-hour classes and they may easily be pursued in connection with other work.

3 b Anglo-Saxon Prose.

Further study of Anglo-Saxon, especially of difficult forms and syntax. Extensive reading of prose selections. Text-book, Bright's *Anglo-Saxon Reader*. Continuation of course 3a. *Two hours a week in the second semester.*

4 Anglo-Saxon Poetry.

Poetical selections in Cook and Bright, supplemented by other texts according to the ability of the class. *Two hours a week throughout the year.*

5 Anglo-Saxon Dialects.

A study of the Northumbrian, Mercian, and Kentish dialects, with many of the most ancient remains of heroic poetry. Text-books: Kluge's *Angelsächsisches Lesebuch*, Sievers' *Angelsächsische Grammatik*, and Sweet's *Student's Dictionary of Anglo-Saxon*, with references to Kluge's *Geschichte der englischen Sprache*. Open to senior students in Anglo-Saxon. *Three hours a week in the first semester.*

6 Beowulf.

Study of the Anglo-Saxon text with reference to early Germanic life and customs. Text-book, Wyatt's *Beowulf*, with references to other works. Open to senior students in Anglo-Saxon. *Three hours a week in either semester, as classes may be arranged.*

7 Early Middle English.

A. D. 1066-1300. Homilies, *Later Saxon Chronicle*, and prose selections in the Midland dialect; *The Ormulum*, *Havelok the Dane*, and poetical selections in the Midland dialect; *The Ancren Riwle* and prose selections in the Southern dialect; poetical selections in the Southern dialect, Layamon's *Brut*, *The Owl and the Nightingale* and *King Horn*. The Midland dialect is made the basis of grammatical instruction, and especial attention is given to Danish and Norman influences. Text-book: Emerson's *Middle English Reader*, with supplementary texts. Open to those who have taken course 3a. *Two hours a week in the second semester.*

8 Later Middle English.

A. D. 1298-1400. Sir John Mandeville, Wiclif, John of Trevisa, Dan Michel of Northgate *(Ayenbite of Inwyt)*, Robert of Gloucester, *Handlying Synne*, Lawrence Minot, *Cursor Mundi*, Barbour *(The Bruce)*, Langland, Gower, and Chaucer, with a closer study of dialects, including the Northern dialect. Text-books as in course 7. Open to those who have taken courses 3a and 7. *Two hours a week in the first semester.*

9 Transition and Tudor English.

A. D. 1400-1579. Occleve, Lydgate, James I. of Scotland, Ballads, Dunbar, Douglas, Mallory, More, Tyndale, Ascham, Berners, etc., to Spenser. Text-book, Skeat's *Specimens of English Literature*, 1349-1579. Open to those who have taken course 3a. *Two hours a week in one semester.*

10 College Literature.

A general survey course of English literature. Textbooks: *Century Readings for a course in English Literature*, edited by J. W. Cunliffe, J. F. A. Pyre, and Karl Young, and *Century Outlines for a course in English Literature*, compiled by F. A. Pyre, T. H. Dickinson, and Karl Young. *Three hours a week throughout the year.*

11 Shakespeare.

The following plays are studied: First Semester: *Love's Labour's Lost, Henry V., The Tempest, Midsummer Night's Dream, Romeo and Juliet, The Merchant of Venice, As You Like It.* Second Semester: *Twelfth Night, Hamlet, Othello, Macbeth. Antony and Cleopatra, Coriolanus, A Winter's Tale.* Text-book, *Shakespeare's Principal Plays*, edited by Brooke, Cunliffe, and MacCracken. *Three hours a week throughout the year.*

12 a Browning.

A careful study of the poet's life, followed by the reading and interpretation of the most important of his poetical works. Text-book, The Globe Edition of Browning's works. *Two hours a week in the first semester.*

12 b **Tennyson.**

The study of Tennyson's development as a poet. Nearly all the poems are read in class. Text-book, The Globe Edition of Tennyson. *Two hours a week in the second semester.*

13 a **The Romantic Movement.**

A study of the movement in general, followed by particular study of the poetical works of Coleridge, Wordsworth, Byron, Shelley, and Keats. Text-book, Page's *British Poets of the Nineteenth Century. Three hours a week in the first semester.*

13 b **The Victorian Era.**

A continuation of 13 a. Study of the poetical works of Landor, Browning, Tennyson, Rossetti, Arnold, Morris, and Swinburne. Text-book the same as for 13 a. *Three hours a week in the second semester.*

14 **Ballads and Folklore.**

English and Scottish popular ballads. Origin of ballads in relations to origins of art. Text-book, *English and Scottish Popular Ballads,* edited by Sargent and Kittredge, from the collection by F. J. Child. *Two hours a week in the first semester.*

15 **Modern Drama.**

A study of the drama of the nineteenth and twentieth centuries in relation to the work of Ibsen. *Two hours a week in one semester.*

16 **English Novel.**

An historical survey of the whole period of the English novel. Lectures, class exercises, and occasional papers. *Two hours a week in one semester.*

Note—Courses 10 to 16 are not given every year. In 1918-1919, courses 11, 13, 15, and 16 will be offered.

History

1 **Medieval History.**

Brief preliminary survey of ancient European history. Study of Medieval Europe from the barbarian invasions to the 16th

century. Lectures, recitations, and written tests. Text-book, Robinson and Breasted's *Outlines of European History,* supplemented by Emerton, *An Introduction to the Study of the Middle Ages* and *Mediaeval Europe,* with other works. Required in the sophomore year. *Three hours a week in the first semester.*

2 Modern History.

The history of Europe from the Reformation to the present time. Lectures, oral and written tests. Robinson and Breasted's *Outlines* and supplementary texts. Required in the sophomore year. *Three hours a week in the second semester.*

3 a American History.

Covering the time of discovery, settlement, colonial development, the French Wars and the Revolutionary struggle. *Three hours a week in the first semester.*

3 b American History.

The formation and development of the nation, beginning with the critical time of 1783 and extending through the time of reconstruction after the Civil War. *Three hours a week in the second semester.*

4 a English History.

The history of England from the earliest times to the Reformation. Text-book, Gardiner's *A Student's History of England.* Supplementary reading in other texts and in such special accounts as Cunningham's *The Growth of English Industry and Commerce* and Traill's *Social England. Three hours a week in the first semester.*

4 b English History.

The history of England from the Reformation to the present time Text and assigned readings as in 4 a. *Three hours a week in the second semester.*

5 a The Eighteenth Century.

The French Revolution and the Napoleonic Period. Text-book, Robinson and Beard's *Development of Modern Europe* with references. *Three hours a week in the first semester.*

5 b Europe since the Congress of Vienna.

Text-book as in 5a with references. *Three hours a week in the second semester.*

Political and Economic Science

1 Advanced Civics.

Text-book, Beard's *American Government and Politics* with references to Wilson's *The State*, Bryce's *American Commonwealth*, and other works. *Three hours a week in one semester.*

2 Economics.

Text-book, Bullock's *Introduction to the Study of Economics*, with references to Mill's *Principles of Political Economy* and other standard works. *Three hours a week in one semester.*

Philosophy

1 Descriptive Psychology.

Lectures. Text-book, Angell's *Psychology*, with references to Ladd, James, and other authors. Required in the sophomore year. *Three hours a week in the first semester.*

2 Experimental Psychology.

Lecture. Text-book, Seashore's *Elementary Experiments in Psychology*. Required in the sophomore year. *Three hours a week in the second semester.*

3 Logic.

Lectures. Text-book, Creighton's *Introductory Logic*, with references to Mill, Bosanquet, and other authors. Required in the junior year. *Three hours a week in the first semester.*

4 Introduction to Philosophy.

Lectures and discussion. Text-book, Paulsen's *Introduction to Philosophy*. Required in the junior year. *Three hours a week in the second semester.*

5 Ethics.

Lectures. Text-book, Dewey and Tuft's *Ethics* with references to bibliography. Required in the senior year. *Two hours a week throughout the year.*

Education

1 History of Education.

Lectures. Monroe's *Text-book*, with references to extensive bibliography. Required of those who wish to obtain teacher's state certificates. *Two hours a week throughout the year.*

2 Educational Psychology.

Lectures. Text-book, Lange's *Apperception* with references to bibliography. Required of those who wish to obtain state teachers' certificates. *Three hours a week in one semester.*

3 Pedagogy.

Lectures on the principles of teaching. Extensive bibliography. Practical work in teaching. *Three hours a week in the second semester, usually in the senior year.*

Latin

B Beginners' Latin.

For students without previous work in Latin. The elements of Latin and Caesar's *Gallic War,* Books I-III or selected portions from Books I to V. *Five hours a week throughout the year.*

A Cicero and Virgil.

Six orations of Cicero and six books of Virgil's *Æneid.* Prose composition. *Five hours a week throughout the year.*

1 Livy or Cicero.

Selections from Livy, Books I. and II., or XXI. and XXII., or else either Cicero's Essay on *Old Age* or on *Friendship,* supplemented by Virgil's Pastoral Poems. Exercises in writing Latin once a week. *Four hours a week in the first semester.*

2 Horace.

Selections from the Odes, Epodes, and Epistles. *Four hours a week in the second semester.*

3 Tacitus.

The *Treatise on Germany* and the *Life of Agricola. Three hours a week in the first semester.*

4 Roman Satire.

Selections from Horace and Juvenal. *Three hours a week in the second semester.*

5 Latin Composition.

Open to students who have completed courses 1 and 2. *One hour a week throughout the year.*

6 Cicero's Letters.

About fifty letters will be read with emphasis on the character and age of Cicero. The course is designed to throw light on the causes of the fall of the Roman Republic. *Three hours a week in the first semester.*

7 Roman Drama.

Selected plays of Plautus and Terence. *Three hours a week in the second semester.*

8 Advanced Latin Composition.

Open to students who have completed courses 1 to 5. *One hour a week throughout the year.*

9 Rapid Reading Course.

a. Quintus Curtius, b. Sallust, c. Caesar, Book VII, d. Nepos, e. Ovid, *One hour a week throughout the year.*

10 Lucretius.

Selections from the poem on the *Nature of Things. Two hours a week in one semester.*

11 Catullus.

Selections from the Poems. *Two hours a week in one semester.*

12 Pliny the Younger.

Selections from the Letters. *Two hours a week in one semester.*

13 Suetonius.

The Life of Augustus. A course designed to throw light on the founding of the Roman Empire. *Three hours a week in one semester.*

14 Tacitus.

The Life and times of the Emperor Nero. The later books of the *Annals* will be the text. *Three hours a week in one semester.*

15 The Teaching of Latin.

A review of the four years of High-School Latin, comparison of text-books, and practice teaching, with a rapid survey of Latin literature. Supplementary reading is required. A notebook must be kept. *Two hours a week throughout the year.*

16 Special Subjects.

a. Roman Customs, b. Roman Religion, c. Roman Law, d. Roman Political Institutions. *Two hours a week in one semester.*

17 Late Latin.

Latin hymns, with portions of the New Testament read in class at sight. *Two hours a week in one semester.*

Note—Courses 3 to 17 are not all given every year. In 1918-1919, courses 3, 4, 5, and 15 will be offered.

Greek

B Beginners' Greek.

The elements of Greek and Xenophon's *Anabasis*, Books I and II. *Four hours a week throughout the year.*

A Xenophon and Homer.

The *Anabasis*, Books III and IV, and the *Iliad*, Books I-III, or the *Odyssey*, Books I-IV. Greek Composition accompanies the Anabasis. *Four hours a week throughout the year.*

1 Homer and Lysias.

Homer's *Odyssey*, Books V-XII, or the *Iliad*, Books IV-VI, and selections, in the first semester; Lysias, with grammar and composition, and the *Philippics* of Demosthenes in the second semester. *Five hours a week.*

2 Advanced Greek.

The Alcestis of Euripides, selections from Herodotus and Thucydides, and Jebb's *Primer of Greek Literature*, in the first

semester. Plato's *Apology* and *Crito* Thucydides, in the second semester. *Three hours a week.*

3 **Dramatic Poets.**

Two plays of Æschylus, Sophocles, or Euripides and the study of meters in the first semester. Plays of Aristophanes with discussion of the Attic Drama and Theatre in the second semester. *Three hours a week.*

4 **Poets and Orators.**

Greek Lyric Poets in the first semester: Greek Orators in the second semester. *Three hours a week.*

5 **Plato.**

Selected Dialogues. *Twice a week throughout the year.*

French

1 **First Year French.**

Work in grammar, reading, conversation, and phonetics, based upon Fraser and Squair's *French Grammar.* Additional texts read during the year. *Four hours a week throughout the year.*

2 Second Year French.

Translation and criticism of standard French authors, following the development of French literature from the seventeenth century through the nineteenth century. Composition one hour a week. *Four hours a week throughout the year.*

3 Composition and Conversation.

For students who wish to do advanced work in composition, conducted wholly in French. *Two hours a week throughout the year.*

4 General Survey.

A brief survey of the whole field of French literature, showing main divisions and placing representative authors. Lectures and collateral reading. *Three hours a week throughout the year.*

5 Nineteenth Century Drama.

Study and criticism of representative dramatists, such as

Hugo, Dumas-Fils, Angier, Scribe, Rostand, and others. Lectures and assigned reading. *Three hours a week in the first semester.*

Spanish

1 First Year Spanish.

Hill and Ford's *Spanish Grammar* used in connection with Giese's *First Spanish Book.* Translation of selections from *Gil Blas. Four hours a week throughout the year.*

2 Second Year Spanish.

Translation of selections from the *Don Quijote* of Cervantes and from more modern writers. *Two hours a week throughout the year.*

3 Commercial Spanish.

For students who wish practical work in business Spanish, writing letters, advertisements, making out bills, etc. *Two hours a week throughout the year.*

German

B Beginners' German.

For students without previous work in German. *Five hours a week throughout the year.*

1 Freshman German.

Modern prose, narrative and dramatic, and a drama by Lessing or Schiller. Review of the grammar and syntax. Written and oral exercises. Open to those who have had German B or who offer two entrance units of German. *Four hours a week throughout the year.*

2 Classical and Modern Writers.

Selections from nineteenth century novelists and at least two important dramas by Goethe or Schiller. Written exercises. For students who have had German 1. *Three hours a week throughout the year.*

3 German Composition and Conversation.

This course is especially intended for those who look forward to teaching. *Two hours a week throughout the year.*

4 Sight Reading.

Rapid translation of literary prose and articles in current magazines and newspapers. *Two hours a week (one hour credit) throughout the year.*

5 Modern German Dramatists.

Selected dramas from Grillparzer, Hebbel, Ludwig, Hauptmann and Sudermann, or several dramas of one of these authors, with critical study of his life and works. *Two hours a week in the first semester.*

6 Modern German Novelists.

Readings from Scheffel, Freytag, Keller, Sudermann and Frensson. Representative selections will be read in class and others will be assigned for private reading. *Two hours a week in the second semester.*

7 Goethe.

An introduction to the works of Goethe chosen from the different periods of his literary activity, including Faust. *Two or three hours in the first semester.*

8 German Epic, Ballad, and Lyric Poetry.

The course gives a hasty survey of German poetry from the Middle Ages to the present time, including parts of the *Nibelungenlied*, Court Epics, and characteristic *Minnelieder*, in Modern German translations, and selections from leading poets of the eighteenth and nineteenth centuries. Reports on assigned reading. *Two hours a week in the second semester.*

9 Special Courses.

Other courses may be arranged, as the critical study of one author, as Goethe, or of one period, as the Romantic period, or a general survey of the history of German literature.

10 The Teaching of German.

A course in methods of teaching German, for those intending to become teachers. *Two hours a week in one semester.*

Mathematics

A Solid Geometry.

Ford and Ammerman's Solid Geometry. For those who have not had solid geometry in the high school. *Three hours a week in either semester.*

1 Algebra.

Fite's *College Algebra.* Review of elementary algebra, properties of quadratic equations with emphasis on their graphical interpretations, binomial theorem, variation, progressions, permutations and combinations, and general theory of equations. Required in the freshman year. *Three hours a week in the first semester.*

2 Plane Trigonometry.

Wilczynski and Slaught's *Plane Trigonometry.* Theory of trigonometric functions, solutions of triangles, elements of logarithms, and complex numbers. Required in the freshman year. *Three hours a week in the second semester.*

3 Analytic Geometry.

Wilson and Tracey's *Analytical Geometry.* Co-ordinates and equations, the straight line, the circle, the parabola, the ellipse, the hyperbola, transformation of co-ordinates and simplification of equations, polar co-ordinates. Open to those who have taken courses 1 and 2. *Four hours a week in the first semester.*

4 Elementary Calculus.

A short course in Calculus. Theory of limits, differentiation, applications to geometry and physics, maxima and minima, rates, simple integration and areas. Open to those who have had course 3. *Four hours a week in the second semester.*

5-6 Advanced Calculus.

Granville's *Differential and Integral Calculus.* A continuation of course 4. Curvature, partial differentiation, envelopes, series, expansion of functions, singular points, curve tracing, successive and partial integration, simple differential equations. Open to those who have had courses 3 and 4 or their equivalents. *Three hours a week throughout the year.*

7 Differential Equations.

An elementary treatment of differential equations with applications to physics and mechanics. Open to those who have taken courses 5 and 6. *Three hours a week in the first semester.*

8 Surveying

Recitations and problems in the determination of heights, distances, and areas. Field practice with the chain, the tape, the transit, and the level. Open to those who have taken course 2. *Two hours a week in either semester.*

9 Solid Analytic Geometry.

Snyder and Sisam's text. Determinants. Lines, planes, and surfaces. Properties of quadric surfaces. Homogeneous and tetrahedral co-ordinates. Required of those who take their major in mathematics. *Three hours a week in the first semester.*

10 The Teaching of Mathematics.

A course for those who will teach in high schools. A review of high school mathematics and comparison of text-books. Practical work in teaching. *Two hours a week in one semester.*

Astronomy

1 Introduction to Astronomy.

Moulton's text. A descriptive course designed to give the student familiarity with the solar system, the principal constellations, and the brighter stars. The results of modern investigations are discussed. Open to students beyond the freshman year. *Three hours a week in the second semester.*

Drawing

1 Mechanical Drawing.

Phillips and Orth's *Mechanical Drawing.* Free-hand drawing in perspective and in orthographic projection, use of instruments, lettering, working drawings, tracing, blue printing. Open to freshmen. *Three hours a week throughout the year.*

Physics

B Elementary Physics.

Text-books: Black and Davis's *Practical Physics*, and Millikan and Gale's *A Laboratory Course in Physics*. Open for credit to freshmen who have not offered physics for entrance *Five hours a week throughout the year.*

1 General Physics.

Reed and Guthe's *College Physics*. Lectures and recitations, four hours a week. Laboratory practice, four hours a week. Open to those who have taken Mathematics 1 and 2. *Full study throughout the year.*

2 Heat and Light.

Advanced course of lectures. Open to those who have taken course 1. *Three hours a week in the first semester.*

3 Electricity and Magnetism.

Advanced course of lectures. Open to those who have taken course 1. *Three hours a week in the second semester.*

Chemistry

1 General Chemistry.

The subjects covered in this course will include a careful study of the occurrence and properties of the elements, together with laws governing all chemical reactions. Prerequisite: Elementary physics; high school chemistry is recommended. Lectures or recitations three hours per week with two double laboratory periods per week throughout the year. *Five hours credit in each semester.*

2 Qualitative Analysis.

The detailed separation of the metals, non-metals and acid radicals. The student is required to apply the theory of course 1, and explain the reason for each reaction. The ionic theory, solubility product, laws of concentration, hydrolysis, amphoteric hydroxides, etc., are studied and applications made in the separations. Required of major students. Prerequisite: course 1. One lecture or recitation with four hours of laboratory work per week throughout the year. *Three hours credit in each semester.*

3 Quantitative Analysis.

The work embraces the principal methods of gravimetric, volumetric, and electro-chemical analysis, and the use of reference works and chemical journals. This course gives quantitative application of the laws studied qualitatively in course 2. Required of major students. Prerequisite: courses 1 and 2. One lecture or recitation with four hours of laboratory work per week throughout the year. *Three hours credit in each semester.*

4 Organic Chemistry.

A study of the methods of preparation and the properties of the more important organic compounds. Special stress is laid upon the theories underlying the subject and the proofs of the constitution of most of the substances studied. Required of major students. Prerequisite: course 1. Two lectures or recitations and three hours of laboratory work per week throughout the year. *Three hours credit in each semester.*

5 Physical Chemistry.

A course presenting the conceptions of modern physico-chemical theories concerning the states of aggregation of matter. The first semester is taken up with a detailed study of quantitative laws governing gases, liquids, solids and substances in solution. During the second semester a study of the phase rule and electro-chemistry is taken up and there is a detailed study of the laws of chemical equilibrium. Prerequisite: courses 1 and 2. Two lectures or recitations per week throughout the year. *Two hours credit in each semester.*

6 Household Chemistry.

In the first semester a careful study is made of the occurrence and properties of elements, together with laws governing chemical reactions. During the second semester practice is given in the standard methods for the analysis of foods and the detection of adulterants. This course is a preparation for the study of domestic science. Prerequisite: Elementary physics; high school chemistry is recommended. Two lectures or recita-

tions and two hours of laboratory work per week throughout the year. *Three hours credit in each semester.*

Biology

1 Biology.

Microscopy, Plant and Animal Biology. Laboratory work and lectures. Open to freshmen and sophomores. *Two hours each day. Five times a week throughout the year.*

2 Physiology.

Anatomy, Physiology and Hygiene. Open to sophomores and juniors. *Five times a week in the first semester.*

3 Zoology.

Laboratory work. Special studies and a summary thesis. Open to sophomores and juniors. *Two hours each day. Three times a week in the second semester.*

4 Botany.

Laboratory work. Special studies and a summary thesis. Open to sophomores and juniors. *Two hours each day. Three times a week in the second semester.*

5 Special Research.

Opportunity offered for work in a limited field. Credit to be arranged.

Geology

1 Physiography and Dynamic Geology.

Lectures, review papers and discussions. Open to juniors. *Five times a week in the first semester.*

2 Paleontology.

Class work, field studies, and a thesis. Open to juniors. *Five times a week in the second semester.*

English Bible

1 Old Testament.

Lectures and a study of the text of the American Standard Revision. Analysis of the Old Testament with introduction. Elective. *Three hours a week throughout the year.*

2 New Testament.

Lectures and a study of the text of the American Standard Revision. Analysis of the New Testament with introduction. Elective. *Three hours a week throughout the year.*

Note:—In 1918-1919, course 1 will be given.

Public Speaking

1 Public Speaking.

Text-book, Phillip's Effective Speaking. Should be taken during the sophomore year if possible, certainly by the junior year. May be taken in the freshman year by well prepared students. *Two hours a week throughout the year.*

2. Advanced Public Speaking.

Open to those who have had Public Speaking 1. No text-book required. This is a course in debating and the study of speeches by famous orators. *Two hours a week throughout the year.*

3 Course in Dramatic Reading.

Study of dramatic selections from Shakespeare and other standard authors. *Two hours a week throughout the year.*

ATHLETICS AND PHYSICAL TRAINING

Both Athletics and Physical Training are in charge of a Physical Director and a Medical Adviser. All students, at the opening of the year must submit to a physical examination by competent physicians. Regular work in gymnasium classes is carried on throughout the year. Military training may be substituted for the work in gymnastics for men and receives the same credit. See under "Required Work," page 27.

MUSIC

Work in music has always been a prominent element in Milton College. It has been carried on under the title, "School of Music," and all courses when completed are certified under that name.

The principal courses in music are the following: Voice Culture, Harmony, Pipe Organ, Pianoforte, Violin, Viola, and Violoncello.

Two years' study of Harmony, one year of the Theory of Music, and a course in the History of Music are required in the Pianoforte, Voice Culture, and stringed instrument courses; and at least the first two grades of one of the instrumental courses is a prerequisite of the completion of the Harmony and Voice Culture courses.

Pupils having completed any one of the foregoing courses and having a full high school course or its equivalent are entitled to a certificate of graduation in the course pursued.

A detailed statement of the work in music is given in the catalogue for the year 1916-1917, copies of which may be obtained at the college office.

To aid students in the instrumental courses, classes in sight playing and for ensemble work are organized for practice in the playing of duos, trios, and work for the pianoforte and stringed instruments; also recitals are given from time to time as an essential means of training for students in these courses.

These adjuncts to musical training are free, and all students in instrumental courses are required to attend them. Those who are prepared to take allotted parts in the orchestra may receive the benefit of the weekly practice of the college orchestra.

The Chapel Choir, Choral Union, Glee Club, and Treble Clef afford an opportunity for students to obtain practice in chorus singing.

Fees

The tuition in the School of Music is estimated as per half-semester, or quarter, of nine weeks.

Pipe Organ, one lesson a week	$13.50
Pianoforte, two lessons a week	14.00
The same, one lesson a week	7.50
Kindergarten, two lessons a week, in classes	4.50
Stringed Instruments, two lessons a week	14.00
The same, one lesson a week	7.50
Voice Culture, two half-hour lessons a week	13.50
The same, one half-hour lessons a week	7.50
Elementary Vocal Music, in classes	$1.00 to 2.00
Theory of Music	1.00
Harmony	7.50

Tuition is to be settled in advance at the beginning of each quarter. No reduction will be made to pupils who miss their lessons, except in the case of prolonged absence on account of sickness or other unavoidable circumstances.

CATALOGUE OF STUDENTS

COLLEGE

Senior Class

Alice Ruth Boyd	Lima Center
Isabella Brown	North Loup, Nebr.

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Junior Class

Isaphene Olive Allen	Farina, Ill.
Harold Ormand Burdick	Dunellen, N. J.
Marjorie Janette Burdick	Milton
Dessie Neil Davis	Farina, Ill.
Verna Susan Foster	Olivet, Mich.
Pearl Rosina Gaarder	Orfordville
Nan Elizabeth Grundy	Janesville
Georgia Ella Holbrook	Janesville
Ralph Raymond Holliday	Milton
John Edward Holmes	Milton
Stanley Richard Horward	Janesville
Walter Alexander Kenyon	Hopkinton, R. I.
Henrietta Clara Knuth	Janesville
Gladys Ione Pelton	Janesville
Leland Campbell Shaw	Plainfield, N. J.
John Harold Thorngate	Milton
Myron Oliver Warner	Milton Junction

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Sophomore Class

Franklin Leman Allen	Farina, Ill.
George Wayland Coon	Milton Junction

Fred Wells Crumb	Milton
Paul Laverne Emerson	Milton
Arna Louise Dickinson	Edgerton
Myrtelle Ellis	Dodge Center, Minn.
Ruby Elizabeth Fetherston	Milton
Elizabeth Mary Fletcher	Oregon, R. F. D.
Howard Victor Fox	Milton
Myrtle Violet Fox	Milton
*William Simon Hillstrom	Park City, Utah
Marion Mackey Hull	Milton Junction
Charles William Hyne	Evansville
Maurice Walton Ingham	Fort Wayne, Ind.
George Olaf Johnson	Port Wing
Lucy Mary Kellogg	Janesville
Henrietta Pauline Lewis	Stonefort, Ill.
Noble Curtis Lippincott	Milton
Esther Lulu Loofboro	New Auburn
Reta Susie Loofboro	New Auburn
Estella Tuttle Pearce	Belleville
Arlouine Persels	Farina, Ill.
Howell Sheppard Randolph	Milton
Hannah Shaw	Ashaway, R. I.
Stephana Shaw	Plainfield, N. J.
Harry Elno Talbot	Milton
Clifford William Clarke Thomas	Milton
Eloise Marguerite Thomas	Albion
Irene Thomas	Ely, Minn.
Helen Marguerite Thorngate	Milton
Myra Willametta Thorngate	Milton
Vesta May Thorngate	North Loup, Nebr.
Florence Gladys Wilbur	Janesville

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*Entered the service of the United States during the first semester.

Freshman Class

Everett Phillip Andrews	Boulder, Colo.
Elizabeth Grace Billings	Janesville
*George James Bloor	West Allis
Eugene Howard Bond	Farina, Ill.
Vera Evelyn Coon	Milton Junction
Henry Arthur Curtis	Milton
Goldie Estelle Davis	Milton
Mabel Lucile Dunwidde	Janesville
Marion Ewing	Janesville
Floyd Fay Ferrill	Farina, Ill.
Gertrude Gessler	Bangor
Nina Mae Haskins	Milton
Clarence Edwin Hillstrom	Park City, Utah
Walter Wellington Holliday	Milton
Paul Allen Holmes	Milton
Vard Howarth	Park City, Utah
Herbert Paul Kakuske	Janesville
Myrtle Emma Lewis	Dodge Center, Minn.
Violet Alexander Livingston	Milton Junction
Ernest Milo Lunda	Orfordville
Leo Joseph Manogue	Milton Junction
Dorothy Geraldine Maxson	Milton
Beulah Howard McComb	Lima Center
Neal Dow Mills	Milton Junction
Elizabeth Mary Monahan	Milton
Carroll Frank Oakley	Milton
Mildred Ream Palmiter	Edgerton, R. F. D.
Mary Madeline Pepper	Evansville
Vincent Raukuce	Wilna, Poland
Harold Romaine Rehberg	Janesville

*Entered the service of the United States during the first semester.

Bertha Sybil Reid	Exeland
*Albert Gerald Sayre	Milton
Leona Iola Sayre	North Loup, Nebr.
Ruth Zinn Schlagenhauf	Farina, Ill.
Irvin Edward Schmidt	Farina, Ill.
Ruth Almira Schrader	Milton Junction
Gregory Andreivitch Shadko	Beulah, Mich.
David William Smith	Milton
James Irish Stillman	Milton
Edith Lyle Stockman	Milton Junction
Lois Marie Thomas	Belleville
Vera Leola Thorngate	North Loup, Nebr.
Winifred Ottilie Van Horn	Milton
Carroll Omar Whaley	Janesville
Dorothy Kent Wheeler	Boulder, Colo.
Hazel Irene White	North Loup, Nebr.
Lawrence Arthur Wright	Janesville

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Special Students

Elwyn Joy Davis	Boulder, Colo.
Myrtle Violet Fox	Milton
Pansy Arlene Freeborn	Milton
Bert Ellsworth Garey	Edgerton
Agnes Adalene Green	Edgerton, R. F. D.
Harvey Edward Holmes, Jr.	Milton
Dora Lenora Hurley	Milton
Joseph Whitfield Keel	Woodville, Ala.
Clinton Edward Lewis	Dodge Center, Minn.

*Entered the service of the United States during the first semester.

James Gordon McLay	Janesville, R. F. D.
*Victor Arthur Read	Janesville, R. F. D.
Paul Canfield Saunders	Milton
Roland Shield Scott	Milton
James K. Shiba	Okayamaken, Japan
Albert Henry Waterman	Milton
Mildred Elizabeth Waterman	Milton

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SCHOOL OF MUSIC

Harmony

Doris Babcock	Milton
Cecile Blanche Buggs	Janesville
Phyllis Campbell	Milton
Pearl Rosina Gaarder	Orfordville
Marian Lee	Milton
Beulah Howard McComb	Lima Center
Lois Marie Thomas	Belleville
Irene Thomas	Ely, Minn.

—8

Pianoforte

Genevieve Alys Ayers	Milton
Charlotte Gertrude Babcock	Milton
Margaret Babcock	Milton
Corliss Baker	Milton Junction
Cecile Blanche Buggs	Janesville
Mildred Campbell	Milton
Phyllis Campbell	Milton
Louise Capen	Milton
Rachel Ann Coon	Milton
Mary Ellen Crandall	Milton
Walter Crandall	Milton Junction

*Entered the service of the United States during the first semester.

Frieda Einerson	Milton Junction
Frances Ellis	Milton
Martha Genevieve Fischer	Milton Junction
Anna Fuder	Johnstown
Florence Gray	Milton
Agnes Adalene Green	Edgerton, R. F. D.
Florence Harker	Milton
Harvey Edward Holmes, Jr.	Milton
Doris Helen Holston	Milton Junction
Martha Louise Hughes	Milton Junction
Marion Hull	Milton Junction
Henrietta Clara Knuth	Janesville
Marian Lee	Milton
A. H. Martin	Milton
Catherine Maxson	Milton
Beulah Howard McComb	Lima Center
Ruth Paul	Milton, R. F. D.
Jessie Post	Milton
Doris Randolph	Milton
Ruth Zinn Schlagenhauf	Farina, Ill.
Willard Shadel	Milton Junction
Arlene Stockman	Milton Junction
William Stringer	Milton
Catherine Thorpe	Milton Junction
Irene Thomas	Ely, Minn.
Lois Marie Thomas	Belleville
Mildred Elizabeth Waterman	Milton
Dorothy Euphemia Whitford	Milton
Bernice Will	Johnstown
Anna Marie Woodward	Milton Junction

—41

Voice Culture

Eugene Howard Bond	Farina, Ill.
Cecile Blanche Buggs	Janesville
Marjorie Janette Burdick	Milton

Phyllis Campbell	Milton
George Wayland Coon	Milton Junction
Marian Coon	Milton Junction
Vera Evelyn Coon	Milton Junction
Charles Courtney	Milton
Myrtelle Ellis	Dodge Center, Minn.
Floyd Fay Ferrill	Farina, Ill.
Pansy Arlene Freeborn	Milton
Pearl Rosina Gaarder	Orfordville
Gertrude Gessler	Bangor
Walter Wellington Holliday	Milton
Harvey Edward Holmes, Jr.	Milton
Truman Lippincott	Milton
Dorothy Geraldine Maxson	Milton
Marguerite Monahan	Milton
Edith Lyle Stockman	Milton Junction
Lawrence Arthur Wright	Janesville

—20

Violin and Violoncello

Cleone Bingham	Milton
Vincent Raukuce	Wilna, Poland
Gregory Andreivitch Shadko	Beulah, Mich.

—3

Elementary Singing Class

Ruth Babcock	Florence Gray
Ardis Bennett	William Burdick
Cleone Bennett	Raymond Crosley
Relda Burdick	Harold Mawhinney
Ruth Burdick	

—9

Glee Club

First Tenors

Leslie J. Bennett
Floyd F. Ferrill
Herbert P. Kakuske
Noble C. Lippincott

Second Tenors

Harold O. Burdick
Paul L. Emerson
George O. Johnson
Howell S. Randolph

First Basses

Franklin L. Allen
E. Howard Bond
G. Wayland Coon
Leman H. Stringer

Second Basses

Walter W. Holliday
Stanley R. Horwood
John H. Thorngate
Alfred E. Whitford

Treble Clef

First Sopranos

Alberta Crandall
Gertrude Gessler
Pearl R. Gaarder
Dorothy G. Maxson

Second Sopranos

Mabel L. Dunwiddie
Marion Ewing
Henrietta C. Knuth
Arlouine Persels
Hannah Shaw

First Altos

Marjorie J. Burdick
L. Marie Thomas
H. Marguerite Thorngate
Ruby Van Horn
Dorothy K. Wheeler

Second Altos

Myrtelle Ellis
Myrtle E. Lewis
Helen Shaw
Irene Thomas

SUMMARY OF THE CATALOGUE OF STUDENTS

College

Senior Class	2
Junior Class	17
Sophomore Class	33
Freshman Class	47
Special Students	16
Total	115

School of Music

Harmony	8
Pianoforte	41
Voice Culture	20
Violin and Violoncello	3
Singing Class	9
Glee Club	16
Treble Clef	18
Total in the School of Music counted once	90
Total in the School of Music not in the College	49
Total in the Institution	164

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MILTON COLLEGE

Catalogue
1918-1919

MILTON COLLEGE

Catalogue

1918-1919

CALENDAR FOR YEAR 1919-1920

1919		
Sept. 15-17	Monday-Wednesday	Registration days
Sept. 18	Thursday	First semester begins
Nov. 27-30	Thursday-Sunday	Thanksgiving recess
Dec. 18	Thursday	Sophomore and Junior orations due
Dec. 19	Friday	Christmas recess begins
1920		
Jan. 5	Monday	Recitations resumed
Jan. 15	Thursday	Day of prayer for colleges
Jan. 19-23	Monday-Friday	Registration days for second semester
Jan. 26-30	Monday-Friday	Final examinations, first semester
Feb. 2	Monday	Second semester begins
Mar. 11	Thursday, 8 P. M.	Oratorical contest
Mar. 24-30	Wednesday-Tuesday	Spring recess
Mar. 31	Wednesday	Recitations resumed
May 30	Sunday	Memorial Day
May 31-June 4	Monday-Friday	Final examinations, second semester
June 4-10	Friday-Thursday	Commencement Week

Commencement Exercises, 1919, will be held on Thursday morning, June 12, at 10 o'clock.

BOARD OF TRUSTEES

Office expires in 1919

*Jonathan D. Bond,	Milton
Allen B. West, M. A.,	Milton Junction
Rev. William C. Daland, M. A., D. D.,	Milton
William B. Wells, M. A., M. D.,	Riverside, Cal.
*Rev. Lester C. Randolph, D. D.,	Milton
Grant W. Davis,	Milton
A. Lovelle Burdick, M. S., M. D.,	Milton
Benoni I. Jeffrey,	Milton
George E. Crosley, M. D.,	Milton

Office expires in 1920

E. Stillman Bailey, M. A., Ph. D., M. D.,	Chicago, Ill.
C. Eugene Crandall, M. A., Ph. D.,	Milton
Hon. Paul M. Green,	Milton
Walton H. Ingham, Ph. B.,	Fort Wayne, Ind.
Alexander C. Dunn, B. S.,	Indianapolis, Ind.
Albert S. Maxson, M. D.,	Milton Junction
Lester M. Babcock, M. A., D. D. S.,	Milton
George E. Coon, M. D.,	Milton Junction
Justin H. Burdick, M. D.,	Milton

Office expires in 1921

Prof. Albert Whitford, M. A.,	Milton
William B. Maxson,	Milton
George R. Boss,	Milton
J. Nelson Humphrey, M. A.,	Whitewater
Fred C. Dunn,	Milton
Acting Dean James B. Borden, M. A.,	Madison
James H. Coon,	Milton
Truman A. Saunders,	Milton
George W. Post, M. A., M. D.,	Chicago, Ill.

*Deceased.

OFFICERS OF THE BOARD

FRED C. DUNN, President.
*Rev. LESTER C. RANDOLPH, Vice President.
ALLEN B. WEST, Secretary.
C. EUGENE CRANDALL, Treasurer.
WALTON H. INGHAM, Financial Agent.

STANDING COMMITTEES OF THE BOARD

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BENONI I. JEFFREY, Chairman
GEORGE R. BOSS — Dr. J. H. BURDICK
Dr. A. L. BURDICK — WILLIAM B. MAXSON
Dr. LESTER M. BABCOCK
The President of the Board, *ex officio*

Finance Committee

JAMES H. COON, Chairman
GRANT W. DAVIS — Dr. ALBERT S. MAXSON
The Treasurer, *ex officio*

Committee on Teachers

Rev. WILLIAM C. DALAND, Chairman
Dr. GEORGE E. COON — ALLEN B. WEST

Committee on Scholarships

Dr. GEORGE W. POST, Chairman
WILLIAM B. MAXSON — Rev. WILLIAM C. DALAND

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Dr. A. LOVELLE BURDICK

Medical Director for Women

Dr. SUSAN S. RANDOLPH

Advisory Medical Council

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Dr. GEORGE W. POST — Dr. JUSTIN H. BURDICK
Dr. GEORGE E. COON

Superintendant of Grounds and Buildings

JOHN H. BABCOCK

Janitor

MARTINE M. LANPHERE

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*Deceased.

FACULTY

WILLIAM CLIFTON DALAND, M. A., D. D., President, Professor of the English Language and Biblical Literature.

B. A., Brooklyn Polytechnic Institute, 1879; Student, Union Theological Seminary, New York City, 1883-'86; M. A., Alfred University, 1887; D. D., Milton College, 1896; D. D., Alfred University, 1903; Organist and Teacher of Music, Elizabeth, N. J., and Brooklyn, N. Y., 1874-'86; Pastor, Leonardsville, N. Y., 1886-'91; Pastor, Westerly, R. I., 1891-'96; Pastor, London, England, 1896-1900; Pastor, Leonardsville, N. Y., 1900-'02; President, Milton College, since 1902.

ALBERT WHITFORD, M. A., Professor Emeritus of Mathematics and Astronomy.

WALTER DAVIS THOMAS, M. A., Professor of Greek and History.

Graduate, Union Academy, Shiloh, N. J., 1873; Teacher Public Schools, 1873-'84; B. A., Milton College, 1884; M. A., Milton College, 1887; Professor of Greek, Milton College, 1884-1916; Graduate Student, Special work in Greek, Summer Term, University of Chicago, 1897; Student in Greek and History, Summer Sessions of University of Wisconsin, 1901 and 1903; Professor of Greek and History since 1917.

ALFRED EDWARD WHITFORD, M. A., Professor of Mathematics and Physics.

B. A., Milton College, 1896; M. A., Milton College, 1901; M. A., University of Wisconsin, 1911; Assistant Principal, Waupun High School, Waupun, Wis., 1896-'97; Principal, Milton Public School, 1897-'99; B. A., University of Chicago, 1900; Graduate student in Physics, University of Chicago, 1900-'01; Professor of Physics and Assistant in Mathematics, Milton College, 1901-'10; Assistant in Mathematics, University of Wisconsin, 1910-'11; Professor of Mathematics and Physics, Milton College, since 1911.

Note—With the exception of the President, professors are named in the order of their appointment.

ALBERT ROGERS CRANDALL, M. A., Ph. D., Sc. D., Professor of Natural History and Physiology.

B. A., Milton College, 1873; M. A., Milton College, 1876; Ph. D., Milton College, 1885; Sc. D., Agricultural and Mechanical College, Kentucky, 1917. Entered the Academic Department of Alfred University in 1858. His studies were interrupted by the Civil War. After nearly two years and a half of service in two enlistments, he was mustered out with the rank of First Lieutenant. After studying three years at Milton College and teaching one year as principal of Big Foot Academy, Walworth, Wis., was special student in the Museum of Comparative Zoology at Harvard University during five years, taking special studies in geology, paleontology, and zoology with botanical studies at the Botanical Garden, and also art studies for one year at the Boston Lowell Institute Evening School. During these years the long summer vacations were spent in field studies as a collector for the Museum of Comparative Zoology. These studies were extended over parts of Rhode Island, Massachusetts, and Maine; to the Ottoway region in Canada; to western New York, and along the Appalachian belt from the Catskills to Northern Georgia and Alabama. Appointed Assistant of Prof. N. S. Shaler of Harvard University in the work of the Kentucky Geological Survey, 1873. Instructor in the Department of Natural History of the Agricultural and Mechanical College of Lexington, Kentucky, 1873-'74. Three years later was appointed Professor. Instructor in the Summer School of Geology organized by Professor Shaler at Cumberland Gap, Kentucky and Virginia, in 1875. Continued work on the Geological Survey in conjunction with his duties as professor of Natural History until 1893. Professor of Natural History in Alfred University, 1896-1903. Professor, Natural History, Milton College since 1903. Formerly fellow of the American Association for the Advancement of Science and of the Geological Society of America. Member of the Advisory Council on Religious Congresses in connection with the World's Columbian Exposition, Chicago, 1893. Among his published works are reports on the Geology and Botany of Eastern Kentucky, Vols. 1, 2, and 4, second series, and Vol. C of later reports, besides many papers and addresses.

DAVID NELSON INGLIS, M. A., Professor of Romance Languages.

B. A., Milton College, 1905; M. A., University of Wisconsin, 1908; Principal of Graded School, Marquette, Wisconsin, 1905-'07; Student, University of Wisconsin, 1907-'08; Assistant in Romance Languages, University of Wisconsin, 1908-'10. Professor of Romance Languages, Milton College, since 1910.

*LEMAN HUFFMAN STRINGER, B. A., Professor of Public Speaking, Instructor in Voice and Physical Training.

B. A., Milton College, 1909; Teacher, West Allis High School, 1909-'12; Professor of Public Speaking, Milton College, since 1912.

HARRIS MERRILL BARBOUR, M. A., Professor of Philosophy.

B. A., Brown University, 1906; B. D., Newton Theological Institution, 1909; Minister, Arlington Heights, Mass., 1909-'11; Graduate Student and Assistant in Philosophy, Brown University, 1911-'13; M. A., Brown University, 1913; Professor of Philosophy and History, Milton College, since 1913.

JOHN NORTON DALAND, M. A., Professor of Latin.

B. A., Milton College, 1913; M. A., University of Wisconsin 1914. Professor of Latin, Milton College, since 1914.

*PAUL CANFIELD SAUNDERS, B. S., Professor of Chemistry.

B. S., Alfred University, 1914; Assistant in Chemistry, Alfred University, 1913-'14; Instructor in the Department of Science, Connellsville, (Pa.) High School, 1914-'16; Graduate student in Chemistry, Summer Session of Columbia University, 1916; Graduate student in Chemistry, Summer Session, University of Wisconsin, 1917; Professor of Chemistry, Milton College, since 1916.

Mrs. ANNA SOPHIA CRANDALL, M. A., Instructor in German.

B. A., Milton College, 1881; M. A., Milton College, 1885; Instructor, German Language and Literature, Milton College, 1881-'82; Student in Hebrew Language and Literature at Morgan Park Baptist Theological Seminary, 1882-'86; Studied German in Berlin, Germany, 1899-1900; Instructor in German, Milton College, since 1900.

Miss MABEL MAXSON, M. A., Instructor in English Literature.

B. A., Milton College, 1911; M. A., University of Wisconsin, 1912; Instructor in English Literature, Milton College, since 1912.

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*On leave of absence during the war.

*FRANK GREGORY HALL, B. A., Instructor in Biology.

B. A., Milton College, 1917.

ROBERT VERNON HURLEY, B. A., Instructor in Chemistry and Biology.

B. A., Milton College, 1909; Teacher in Public Schools in Wisconsin, 1909-1917.

Miss ANNA ENSIGN POST, B. A., Instructor in Voice and Public Speaking.

B. A., Milton College, 1916; Student in Music, Chicago, Ill., 1916-1918.

Miss PEARL ROSINA GAARDER, Assistant in Latin.

Miss MARJORIE JANETTE BURDICK, Assistant in Physics.

Miss ALBERTA CRANDALL, Instructor in Piano Playing.

Student, Milton College and School of Music, 1893-'98; Certificate Pianoforte Course, 1908; Student and Teacher of Piano, Alfred University 1898-1901; Special student under Dr. W. S. Matthews of Chicago, 1901; Student, New England Conservatory of Music, Boston, Massachusetts, 1902-'03; Student, New England Conservatory of Music, pupil of Carl Baermann, 1907-'08. Instructor in Piano Playing, Theory, and History of Music, Milton College, since 1903.

Miss MABEL MAXSON, M. A., Librarian.

Prof. A. E. WHITFORD, M. A., Registrar.

Prof. D. N. INGLIS, M. A., Physical Director.

Miss ANNA E. POST, B. A., Matron in Goodrich Hall.

Lieutenant STEPHEN W. DAWES, Infantry, U. S. A., Officer Commanding S. A. T. C.

Lieutenant PHILIP J. GRAY, Adjutant, S. A. T. C.

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*In military service during the war.

GENERAL INFORMATION

Historical Statement

Milton College is situated in the village of Milton, Rock County, Wisconsin, on the Prairie du Chien division of the Chicago, Milwaukee and St. Paul Railway. At Milton Junction, one mile west of Milton, there is also connection with the Chicago and Northwestern Railway.

Milton College is the outgrowth of a select school opened in the village of Milton in the year 1844. In the year 1848 it was incorporated as Du Lac Academy, which in 1854 was reorganized under the name of Milton Academy. In April, 1867, its charter as a college was granted by the state, and the first class was graduated in 1870.

It has always been a co-educational Christian college of liberal culture. Its ideals have been: honest work of the highest character well and thoroughly performed; the encouragement of self-support among its students; a system of government through supervision by the faculty and co-operation by the students, in which personal honor and good will together with loyalty to the high character of the college have been the chief motives.

Although from its earliest history Milton College has had the closest sympathetic relation with the denomination known as Seventh Day Baptists, who have been its main supporters, nevertheless no sectarian tenets are taught in its classes, and students of all religious faiths are received upon equal terms and allowed the free exercise of their beliefs.

Daily chapel exercises are held which students are expected to attend unless they have conscientious scruples against so doing. The college Y. M. C. A. and Y. W. C. A. hold weekly meetings both separately and in conjunction. The religious and moral atmosphere at Milton has always commanded the sympathy and respect of all Christian people who have been at all acquainted with the college.

Government of the Students.

Students who enter Milton College are expected to observe the rules and regulations that are there recognized as governing the student body. These regulations have grown up during many years and have the force of tradition. Examples of these are: the absolute prohibition of the use of intoxicating liquors, under pain of expulsion; the prohibition of profane and obscene language at all times and in all forms; and the prohibition of card playing, social dancing, and the use of tobacco on the grounds or in the buildings of the college. These rules have from time to time been modified and reduced to the form of a code of simple laws. These are not printed in this catalogue, but are included in the catalogue of 1916-1917, a copy of which may be obtained at the college office.

Recent modifications of regulations in force have been made with the co-operation of the Student Council, a representative body of students elected at the beginning of every year. The Student Council serves to mediate between the faculty and the students as a body and is often called by the President of the college when he wishes to ascertain the attitude of the students on any question of importance to them. At the beginning of the year each college class chooses a class adviser from the faculty. The adviser stands in a close relation to the class and deals with individual students in a personal way.

The government of the students is by the Faculty with the President as its executive head making use of the co-operation of the students. It may be called "Faculty government with student co-operation," in contrast with "Student self-government." There is a form of self-government in operation in Goodrich Hall, the Women's Dormitory.

The "Honor System," technically so called, is not observed.

Faculty supervision is the rule; but personal honor and good will are present in all dealings between teachers and students, who are alike jealous of the honor of Milton College.

The College Year.

The college year, September to June, consists in general of two semesters of eighteen weeks each. There is a vacation of a fortnight at Christmas and a shorter vacation near the end of March. The second semester begins the first week in February. Classes meet on five days of the week only and are held during periods of fifty-five (55) minutes each, changing every hour from 7:30 to 9:30 a. m., and from 10 a. m. to 4 p. m. Chapel exercises are held at 9:30 a. m. Examinations are held during the last week of each semester and tests are held at frequent intervals. For the dates of the next college year see the calendar, page 3 of this catalogue.

Admission of Students.

Students are admitted either as regular or special students. Regular students are those fully prepared for entrance and who in college pursue courses leading to the degree of Bachelor of Arts. Such are classified as members of one or another of the four college classes. Special students are either fully prepared students whose studies in college elected by them are not such as to warrant their classification as regular students, or else students who are not fully prepared, but who are completing their preparation in sub-freshman classes, of which some are ordinarily maintained, partly to meet the needs of such students and partly to afford an opportunity for college seniors to obtain practice in teaching, under the supervision of members of the faculty.

A student applying for admission should present himself on one of the days appointed in the calendar for registration. Admission at any other time must be regarded as exceptional. He should present a certificate signed by a proper officer of the school from which he comes. Blanks for this purpose may be

obtained at the college office. A student coming from another college should present a record of his work and a certificate of honorable dismissal from the college which he has attended. The best time for transfer is at the end of the sophomore or beginning of the junior year. To be graduated a student should spend at least one year, preferably two, in residence.

Entrance Examinations.

Entrance examinations are not required of graduates of any high school or academy which is on the accredited list of preparatory schools published by the University of Wisconsin. Other students may be called upon to submit to entrance examinations in part or in all of the subjects offered for entrance. Entrance conditions may be made up in sub-freshman classes.

An entrance examination in English is required of all entering freshmen, no matter from what school they come. Those who fail to pass this examination enter a sub-freshman class in English.

General Fees per Semester

Tuition fee, for those whose work receives credit of more than ten hours per week	$20.00
Tuition fee, for those whose work receives credit of ten hours per week or less	15.00
Tuition fee, for those whose work is mainly of sub-freshman grade	15.00
Incidental fee, charged to all students, to cover use of Library, Gymnasium, and so forth	5.00
Fee for supervision of a study pursued outside of a class	$1.00 to 5.00
Fee for a special examination	1.00
Fee for physical examination, first semester	.50
Fee for physical examination, second semester	.25

Student Tax, for the support of the Athletic Associ-

ation, the Oratorical Association, and the Milton College Review, entitling the student to free admission to all regular games, contests, and debates, and to a subscription to the Milton College Review for one semester---------- 2.50

Rent for locker in Gymnasium ---------- .50

Locker rent is usually collected for the year at the beginning of the first semester. The rent for the second semester is refunded if the key is given up at the end of the first semester. A deposit is required of twenty-five cents for the key to the locker.

Laboratory Fees

Biology 1	$4.00
Biology 3 or 4	3.00
Physics 1	4.00
Chemistry 1	4.00
Chemistry 2 or 3	5.00
Chemistry 5	6.00
Chemistry 6	3.00

In addition to the laboratory fees a deposit of three dollars per year is required for Chemistry 5 and two dollars for all other laboratory courses in chemistry. The amount refunded at the end of the year is determined by the department of chemistry, and will depend on the chemicals used, and the care exercised by the student in avoiding breakage of apparatus.

Diploma Fee

A diploma fee of five dollars is charged to every one who receives a degree from the college. This fee is charged to graduates in the second semester of their senior year.

Payment of Fees

All fees are payable in advance.

Before entering classes at the beginning of a semester, students are required to visit the Treasurer of the college and either settle their accounts or make arrangements for the settling of the same.

A Late Registration fee of two dollars ($2.00) is charged to those who do not present themselves for registration and the satisfactory arrangement for the settlement of their accounts either during the days appointed for registration or on the first day of the semester. See calendar. The late registration fee is charged to those who enter classes at any other time than the beginning of the semester.

Refunding of Bills Paid

Imperative absence of half a semester or more caused by illness or other necessity may be a ground for the refunding of tuition or other fees paid by a student. On proper advice from the faculty the Treasurer will in such a case refund half the amount of the fees.

Rooms and Board

Rooms for women in Goodrich Hall are heated by steam and lighted by electricity. The charges vary from $1.20 to $1.50 a week, according to the number of women in the Hall. Beds and bedding and furniture aside from bedsteads, tables, and chairs are supplied by the students.

Students who wish to board themselves may hire convenient rooms in private houses at about the same rate. Rooms and board may be obtained in private families at from $5.00 to $6.00 a week. Table board in club or private family varies from $4.00 to $5.00 a week.

Estimated Expenses per Year

Tuition, Incidentals, and Fees	$ 60.00 to $ 90.00
Board	$180.00 to $216.00
Rooms	$ 20.00 to $ 35.00
Fuel and Lights	$ 20.00 to $ 40.00
Laundry	$ 10.00 to $ 20.00
Text-books, etc.	$ 10.00 to $ 24.00
	$300.00 to $425.00

The minimum expenses for a year of thirty-six weeks to a student who boards himself are about $250.00; to one who boards in a club, about $275.00; to one who boards in a private family, about $300.00. These estimates do not include money for personal necessities or for recreation or cultural wants varying with the taste of the individual student.

Opportunities for Self Support

Industrious students, both men and women, can generally find opportunities in the village and vicinity, during semesters and vacations, to earn sufficient funds to meet in part their expenses. A large number aid themselves in this way every year. Most graduates of the college have been students of limited means who earned their way by manual labor, by teaching in the public schools, or by engaging in other occupations.

Free Scholarships

Milton College offers a free scholarship for one year to the graduate having the highest honors in his class in each high school in the State of Wisconsin that requires a four years' course of study. A free scholarship for one year may also be offered to the graduate having the highest honors in his class in such a high school in a neighboring state as the Board of Trustees may specially designate.

Free scholarships for one year are also offered to the students belonging to the Freshman, Sophomore, and Junior classes, each of whom shall have completed the year with the highest honors.

Certain endowed scholarships have been for a long time established, the beneficiaries of which are appointed by those named by the founders of the scholarships. Students are now the beneficiaries of such scholarships, designated as follows:

The Mary F. Bailey Scholarship.

The Jennie B. Morton Scholarship.

The Ezra Crandall Scholarship.

The Salem College Scholarship.

The Class of 1907 Scholarship.
The Rev. Oscar Babcock Scholarship.
The Rev. Edwin Shaw Scholarship.
The Albertus D. Crumb Scholarship.
The William H. and Mary E. Rich Scholarship.

Recently other endowment scholarships have been established, beneficiaries of which are appointed by the Trustees of the college.

All scholarships cover tuition and incidental fees, but not laboratory fees, board, room, or other expenses. Some of the scholarships are awarded only on certain conditions, which will be made known upon application.

Exceptional Tuition Fees

Half the usual tuition fee is charged to a student who is the son or daughter of a minister of religion or to a student who is preparing for the ministry in any religious denomination. Tuition fees are remitted entirely to sons or daughters of members of the faculty. Other fees are charged in these cases.

Buildings

Milton College has five buildings devoted to various purposes. The Main Building contains the offices, the chapel, and many recitation and lecture rooms. The Whitford Memorial Hall contains the Library and the lecture rooms and laboratories for physics, chemistry, and biology. In this building also are the rooms for the gentlemen's literary societies. The other buildings are Goodrich Hall, the ladies' dormitory, containing a room for a ladies' literary society; the Auditorium Gymnasium, situated south of the buildings mentioned; and the President's Home on an eminence further south of the buildings. The campus fronts on College Street in the village of Milton.

The Library

The College Library consists of what were originally the Daniel Babcock Library, the Orophilian Library, the Iduna Library and the Philomathean Library. These Libraries have

been consolidated and are under the general management of the College Librarian, appointed by the Board of Trustees.

The Library now contains more than 11,000 books and 500 pamphlets newly classified and provided with a dictionary card catalogue. There are also several hundred other pamphlets and volumes of unbound magazines.

Books or magazines may be borrowed by students and residents of Milton subject to the usual library regulations. The library is open every college week-day from 8:00 A. M. to 12:00 P. M., and from 1:00 P. M. to 4:30 P. M., except during the chapel exercises. It is also open to the public on Tuesday and Thursday afternoons during the summer vacation. During the time college is in session the Library is also open on Monday and Wednesday evenings from seven till nine o'clock.

Apparatus

The institution is well equipped with apparatus for the student's use in laboratory work in the several courses described under "Departments of Instruction." The Chemical Laboratory in the south half of the second story of the Whitford Memorial Hall is well stocked with everything needful for complete work in General and Analytical Chemistry. The Physical Laboratory is in the south half of the first story. The apparatus of this department has been recently very largely increased and is now full and complete. The Biological department in the second story over the Library is provided with the best Bausch & Lomb microscopes.

Cabinets

The cabinets illustrative of Mineralogy, Geology, and Paleontology, embrace over four thousand specimens, and exhibit fairly the materials and the formations of the rocks found in the state. There has been presented to the college the W. P. Clarke collection of stone and copper instruments, some of which are rare types belonging to the different periods of the Prehistoric

Age, found in the immediate vicinity, elsewhere in our country, and in foreign lands. The college has obtained and preserved over eighteen hundred species of plants, which grow principally in this state. There have been gathered specimens of insects, fishes, birds, and mammals, typical of the groups of animals to which they belong; and a room with convenient cases has been set apart for their exhibition and use. Special students of the college share in the collection and classification of type forms in the several departments.

The Literary Societies

These are four in number, the Orophilian Lyceum, the Philomathean Society, the Iduna Lyceum, and the Miltonian Lyceum. The first two are for men and the third and fourth are for women. All of these organizations hold their sessions on Saturday evening during the college year. At the end of each year, during Commencement Week, the societies present public programs. Excellent work has been done by each of these societies during the past year. Every student is urged by the faculty to become a member of some one of these organizations, because exceptional opportunities are offered to those who desire to improve in writing, in public speaking, in debating, and in a knowledge of parliamentary practice.

Christian Associations

The first religious organization of the college was established in 1856 for both men and women and continued so until May, 1907. At that time it was reorganized as a Young Men's Christian Association and a Young Women's Christian Association, both affiliated with the state and national organizations. They are absolutely non-sectarian in their organization and management. They hold three prayer and conference meetings a week during the college year. One of these is held on Friday evening and is open to both men and women. The other two meetings are held on Tuesday evening, one for men and the other for women. The associations usually hold three socials during

the year, viz.: one at the beginning of the year, the second near the end of the first semester, and the third just before the spring recess. At these socials music is rendered, papers are read, and addresses are presented. An effort is also made to introduce new students to the older ones, and all are invited to join the associations. The moral and religious influence of these organizations on the student body and on the spirit and life of the institution cannot be overestimated.

Language Clubs

The clubs usually hold meetings once a month, and are devoted to the cultivation of English and linguistic studies.

The Athletic Association

This organization is composed of all students in the institution, and has charge of all the athletic games and contests connected with it. The contests arranged by the Association are subject to the rules governing athletics. Tennis in the autumn and spring, basket-ball in the Gymnasium during the winter, and baseball in the spring, are the principal games. Early in June of each year the Asssociation holds the annual Field Day, at which records are made in the several field events.

The Oratorical Association

This organization is composed of the members of the four Literary Societies, and the Faculty. The officers are president, vice-president, secretary, and treasurer, chosen annually, one from each of the societies. These officers together with the President of the college and the faculty of the English department constitute an executive committee which has general charge of the business of the Association. An oratorical contest is usually held shortly before the spring recess. Debates are also arranged between classes or with other colleges.

The Alumni Association

The Alumni Association of Milton College was organized in 1870, and its membership consists of those persons on whom the

Institution has conferred honorary degrees, as well as those former students who have been graduated in all the courses of the College and of the old Academy. To this number should be added six distinguished former students who have been elected honorary members of the Association. This organization holds its annual meeting during Commencement Week and at this time a banquet is held. The officers of the Alumni Association for this year are:

President—Dr. A. L. Burdick, '89; First Vice-President—Prof. A. B. West, '07; Second Vice-President—Prof. J. N. Daland, '13; Third Vice-President—Miss Alice R. Boyd, '18; Fourth Vice-President, Mrs. C. S. Sayre, '00; Secretary-Treasurer, L. H. North, '08.

The Milton Forward Movement

Early in the college year, 1913-14, a movement was initiated among the students to co-operate with the Trustees of the college in all efforts to build up the institution, to increase the number of students in attendance, to foster a spirit of amity and good-will between the students and the community, and in all ways to work for the prosperity of the institution. At its inception this was known as the "Forward Movement." It is significant of the character of the student body of the college.

Students' Meetings

All students' meetings and social gatherings are held subject to the approval of the President of the college, which must be obtained before any meeting is announced or any date set for the same. All social meetings are under the supervision of chaperons approved by the faculty. Class meetings are supervised by the class advisers. It is expected that evening meetings shall close at half past ten o'clock.

Milton College Review

The Milton College Review was formerly a monthly magazine, but is now a weekly newspaper, edited by students under the supervision of the faculty. The price of the paper is $1.50 a year. The cost of maintaining the paper is defrayed by advertisements, subscriptions, and a share of the student tax.

THE COLLEGE COURSE

Entrance Requirements

Every entering freshman must have pursued fifteen (15) units of preparatory work above the eighth grade in school. The term unit means the equivalent of five recitations a week for one year in one branch or closely allied branches of study. These should be as follows:

Mathematics (algebra 1, geometry 1)	2 units
English	3 "
History (ancient history 1, or medieval and modern history 1, or United States history 1, or English history 1)	1 "
Science (botany 1, or botany and physical geography 1, or chemistry 1, or physics 1, or physiology or physical geography 1, or zoology 1)	1 "
Language (Latin 4, or two languages each 2)	4 "
	11 units

Any four units from the following:

One language	1 or 2 units
English	1 or 2 "
History	1, 2, or 3 "
Civics and economics	1 "
Mathematics	1 "
Science	1, 2, or 3 "
Optional subjects	2 "

Students may be admitted with less work in language, but in that case they will be restricted in their choice of college studies. If fewer than two units of language are offered, more than the usual work will be required for their college course. See under "Restrictions and Special Requirements," page 27. A single unit of one language is not regarded as a complete element of a preparatory course. Students whose preparation is

incomplete may enter sub-freshman classes and thus complete their preparation. Such are classified as special students till their work is sufficient to warrant their classification in a regular college class.

Course of Study

A course of study in the college is pursued during four years and includes one hundred and twenty-eight (128) semester hours or credits; one hundred and twenty (120) of these are in class work, four (4) in physical training, and four (4) are covered by the graduating thesis. A semester-hour or college credit is the equivalent of one hour of recitation or lecture per week for one semester. Two hours of physical training or of laboratory work per week usually receive credit as one semester-hour. In the arrangement of his course of study a student should not plan to do less than fourteen (14) or more than seventeen (17) hours a week. No student will be permitted to register for more than eighteen (18) semester-hours in one semester except by permission of the faculty obtained in advance. See under "Restrictions and Special Requirements" page 27.

Grades

The work of students is graded on a scale of one hundred. The passing grade for a single study is seventy (70) per cent. For convenience grades between certain limits are designated by letters. Grade A means excellent work and represents a standing of 93 to 100 per cent; grade B, good work, 85 to 92 per cent; grade C, fair work, 77 to 84 per cent; grade D, poor work, 70 to 76 per cent. Grade D is the passing grade for credit.

But in addition to the requirement of one hundred and twenty-eight semester-hours for a course a candidate for graduation must secure at least one hundred and twenty-eight grade points. The grade points are awarded as follows:

For grade A, three points for each semester-hour.
For grade B, two points for each semester-hour.

For grade C, one point for each semester-hour.
For grade D, credit but no points.

The maximum number of points that can be secured in a course is 384; the minimum must be 128. It is evident that an average grade of C is required for graduation. A student who falls behind in the required number of points is ineligible for graduation. Hence while seventy per cent is the passing grade for a single study, the average passing grade for the whole course is seventy-seven (77) per cent.

Required Work

Of the one hundred and twenty semester-hours of class work, sixty-four (64) semester-hours must be taken in certain subjects that are required of all candidates for a degree. These are known as required subjects. The remaining fifty-six (56) semester-hours are elective. The required work is as follows:

Engish	6	semester-hours	
Public Speaking	4	"	"
Mathematics	6	"	"
Language	16	"	"
History	6	"	"
Science	10	"	"
Psychology and allied Studies*	16	"	"
Total Required Work	64	"	"

Those who wish to prepare for teaching must also take in the department of Education at least nine (9) semester-hours, of which at least two (2) must be practical work in teaching or teaching combined with class work in methods of teaching, usually their major subject. For an explanation of what is meant by a major subject see under "Elective Work," page 25.

*These are enumerated under the department of Philosophy. See under "Departments of Instruction," page 36.

Elective Work

By the statement that fifty-six semester-hours of the class work of the college course are elective is not meant that studies may be freely chosen without plan or system. The studies in college may be roughly divided into three groups as follows:

I. Language and Literature.
II. History, Social Science and Philosophy.
III. Natural Science and Mathematics.

At the beginning of the sophomore year, a candidate for a baccalaureate degree must, with the advice of the President, choose a major subject from one of the above groups and a minor subject from another department of the same group; provided, however, that a suitable language may be chosen as a minor subject in connection with any major and that mathematics may be chosen as a major subject in connection with a minor in either group I. or group II.

The work in a student's major subject must be consistently and consecutively pursued under the direction of the professor in charge of the department. In his major subject the student is required to do not less than sixteen (16) nor more than thirty-six (36) semester-hours exclusive of the thesis. Of these six (6) semester-hours should be completed before the junior year. The thesis is usually prepared in the senior year and must be a creditable piece of scholarly work in the major subject.

What may be counted as part of the major work is determined by the department in question, but certain studies cannot be counted; as German B, Latin A and B, English 1, and Mathematics 1 and 2. See "Departments of Instruction."

The minor subject is a related subject and one which when pursued is of benefit to the student in the consistent study of his major subject. It may be determined by the professor in charge of the major work. Usually ten (10) semester-hours should be taken in the minor subject.

Required subjects other than those excluded above may, at the discretion of the department, be counted as part of either the major or minor work.

Examples of subjects often chosen as major subjects are English, Latin, German, mathematics, biology, chemistry, and so forth. Rarely, by direction of a department, two subjects may be combined for major work; as, for example chemistry and physics.

Arrangement of Courses

The following table will serve to illustrate how the required and elective work may be combined in a course of study for four years:

Freshman year		
	English 3 hours per week	6 s.-h.
	Mathematics 3 hours per week	6 s.-h.
	Two languages each 4 hours per w'k	16 s.-h.
	Physical training 2 hours per week	2 s.-h.
		30
Sophomore Year		
	History 3 hours per week	6 s.-h.
	Psychology 3 hours per week	6 s.-h.
	Science usually 10 hours a week	10 s.-h.
	Physical training 2 hours per week	2 s.-h.
	Elective	8 s.-h.
		32
Junior Year		
	Logic and philosophy 3 hours per w'k	6 s.-h.
	*Public speaking 2 hours per week	4 s.-h.
	Elective 11 hours per week	22 s.-h.
		32

*Public speaking may be taken in the sophomore year in addition to the other work; this is advised if the student can arrange time for it then.

Senior Year----------

Ethics 2 hours per week----------	4 s.-h.
*History of Education----------	4 s.-h.
*Pedagogy, including practical work	5 s.-h.
Elective class work ----------	17 s.-h.
Thesis, given credit always as----	4 s.-h.
	34

The foregoing table is intended to serve as a practical guide to the student in arranging his work. It will be noted that no elective work is assigned to the freshman year. However, a student making his major in science may well take his required science then and defer one of his languages till the sophomore year. But the required work in language should all be completed, if possible, before the junior year. It should never be postponed till the senior year. Those who enter with insufficient preparation in language should exercise especial care in the arrangement of their work. Such must heed advice given to them when registering for their studies.

Restrictions and Special Requirements

After a student's studies are registered at the office no change in these will be allowed without permission of the President of the college.

Permission to register for more than eighteen semester-hours in the same semester will not be granted in any year to a student whose average standing during the preceding year has not reached ninety per cent.

A student who offers only two units of language for entrance must take twenty-six (26) semester-hours of language in his college course. One who offers no language for entrance

*Required of those who wish to teach. Other students take twenty-six (26) semester hours of elective subjects instead of seventeen (17).

Note—In explanation of enumeration of credit for science and physical training see under "Course of Study" page 23.

must take thirty-six (36) semester-hours of language in college ten (10) of which will be without credit; that is, the course of such a student will contain ten additional semester-hours, over and above the usual 128.

Any student who desires to pursue a study outside of a class and receive credit therefor must first obtain special permission from the faculty. Such work must be carried on under the supervision of the professor in charge of the department in which the study is pursued. The fee for such supervision is noted in the table of fees (See page 13.) and must be paid with the other fees at the office.

Absences

Absence from any class exercise, whether recitation, lecture, test, or final examination, shall constitute a "cut."

If no cuts are taken in a course and the student's work is of passing grade, he will be credited with the number of semester-hours specified for that course and as many tenths of an hour in addition. Thus a five-hour course with perfect attendance would give the student 5.5 hours; a three hour course, 3.3 hours, and so with others.

Each cut automatically deducts one tenth of an hour from the total credit for perfect attendance.

No cuts shall be canceled or excused by a teacher. All omitted work shall be made up to the satisfaction of the teacher and all required tests or examinations taken at his convenience.

A limit to cutting in any particular course may be set by the teacher with the approval of the faculty; and, if a student cuts beyond that limit, the course may be canceled by vote of the faculty.

In cases of absence due to long continued illness or in other exceptional cases, credit lost may be restored by vote of the faculty, not to exceed the number of semester-hours specified for the course.

At the discretion of any teacher three cases of tardiness may be counted as a cut.

Absence on the first day of the semester, the last day before a recess, or the first day after a recess shall be counted as two cuts.

As will be seen, deficiencies due to excessive cutting can only be made up by faithful attendance or by additional hours of subsequent work.

No credit for any course will be given for less than one semester-hour.

Attendance at chapel is required with an allowance of ten cuts a semester. Each cut in excess of ten automatically adds one-tenth of a semester-hour to the requirements of the student's college course. Individual cases of non-attendance at chapel on religious or other grounds will be dealt with separately by the faculty.*

Examinations

College seniors whose class standings are above ninety per cent during the second semester may be excused from taking final examinations in June.

A student whose final standing in any study is sixty-five per cent or more, but below the passing grade, is conditioned in that study and may at an appointed time within a year take an examination to remove the condition.

For every special final examination—that is, for every final examination held for the benefit of a single student—a fee of one dollar is charged. See table of Fees.

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*During the continuance of the S. A. T. C., Chapel attendance was made voluntary for all students. This arrangement was continued during the first semester only.

Degrees

All graduates from Milton College receive the degree of Bachelor of Arts.

Orations

Each student in the sophomore and junior year is required to produce an oration. These orations must be finished and handed to the Professor of Public Speaking before the Christmas recess. They must be delivered either in the annual contest of the Oratorical Association of the college, or in one of the preliminary contests, or in some public exercise arranged by the faculty and held on a date earlier than that of the annual contest.

Theses

Theses must be typewritten and furnished for the college library by the Friday before Commencement. Diplomas will be withheld from students that fail to comply with this requirement.

Teachers' Certificates

According to recent legislation all applications by college graduates for life certificates to teach in the state of Wisconsin are to be considered solely upon their merits. Any graduate desiring to obtain such a certificate must file an application setting forth the studies he has pursued, duly certified by the college from which he is graduated. He may then be required to take an examination in certain subjects. If the application is satisfactory or if the examination is duly passed, a certificate will be granted after two years' successful experience in teaching and the maintenance of a good moral character.

For specially required studies see under "Required work," page 24. Also see note to table under "Arrangement of courses," page 27.

DEPARTMENTS OF INSTRUCTION

English

1 Freshman English.

Lectures on English composition. Exercises in paragraph and theme writing, directed toward the formation of an effective prose style. Text-books: Newcomer's *Elements of Rhetoric* and Lewis's *Specimens of the Forms of Discourse.* Required of all college students in the Freshman year. *Three hours a week throughout the year.*

Note—The work in this course consists of the following parts:

a) Class exercises or lectures three times a week.

b) Short themes based on exercises in Lewis's *Specimens of the Forms of Discourse* twice a week.

c) Weekly translations from a foreign language.

d) Longer bi-weekly themes based on the required readings.

e) Required readings: (1) A book of general reading and a standard novel, (2) Winchester's *Principles of Literary Criticism*, (3) Matthew Arnold's *Essays in Criticism*, selected.

2 Sophomore Composition.

Narrative composition. During the recitation hour the class pursues the study of the American short story. Compositions are required weekly or fortnightly. Elective. *Two hours a week throughout the year.*

3 a Elementary Anglo-Saxon.*

An elementary course with a view to the mastery of the grammar and the reading of normalized West Saxon prose, especial attention being given to the derivation of words. Text-book, Cook's *First Book in Old English. Two hours a week in the first semester.*

*Courses 3 to 9 have special reference to the history and development of the English language. Course 3a is required in the sophomore year of those choosing English as a major. It is advised that English students pursue consecutively either courses 3a, 3b, 4, 5, and 6 or 3a, 7, 8, and 9. The most of these are two-hour classes and they may easily be pursued in connection with other work.

3 b Anglo-Saxon Prose.

Further study of Anglo-Saxon, especially of difficult forms and syntax. Extensive reading of prose selections. Text-book, Bright's *Anglo-Saxon Reader.* Continuation of course 3a. *Two hours a week in the second semester.*

4 Anglo-Saxon Poetry.

Poetical selections in Cook and Bright, supplemented by other texts according to the ability of the class. *Two hours a week throughout the year.*

5 Anglo-Saxon Dialects.

A study of the Northumbrian, Mercian, and Kentish dialects, with many of the most ancient remains of heroic poetry. Text-books: Kluge's *Angelsächsisches Lesebuch*, Sievers' *Angelsächsische Grammatik*, and Sweet's *Student's Dictionary of Anglo-Saxon*, with references to Kluge's *Geschichte der englischen Sprache.* Open to senior students in Anglo-Saxon. *Three hours a week in the first semester.*

6 Beowulf.

Study of the Anglo-Saxon text with reference to early Germanic life and customs. Text-book, Wyatt's *Beowulf*, with references to other works. Open to senior students in Anglo-Saxon. *Three hours a week in either semester, as classes may be arranged.*

7 Early Middle English.

A. D. 1066-1300. Homilies, *Later Saxon Chronicle,* and prose selections in the Midland dialect; *The Ormulum, Havelok the Dane,* and poetical selections in the Midland dialect; *The Ancren Riwle* and prose selections in the Southern dialect; poetical selections in the Southern dialect, Layamon's *Brut, The Owl and the Nightingale* and *King Horn.* The Midland dialect is made the basis of grammatical instruction, and especial attention is given to Danish and Norman influences. Text-book: Emerson's *Middle English Reader,* with supplementary texts. Open to those who have taken course 3a. *Two hours a week in the second semester.*

8 Later Middle English.

A. D. 1298-1400. Sir John Mandeville, Wiclif, John of Trevisa, Dan Michel of Northgate *(Ayenbite of Inwyt)*, Robert of Gloucester, *Handlying Synne*, Lawrence Minot, *Cursor Mundi*, Barbour *(The Bruce)*, Langland, Gower, and Chaucer, with a closer study of dialects, including the Northern dialect. Text-books as in course 7. Open to those who have taken courses 3a and 7. *Two hours a week in the first semester.*

9 Transition and Tudor English.

A. D. 1400-1579. Occleve, Lydgate, James I. of Scotland, Ballads, Dunbar, Douglas, Mallory, More, Tyndale, Ascham, Berners, etc., to Spenser. Text-book, Skeat's *Specimens of English Literature*, 1349-1579. Open to those who have taken course 3a. *Two hours a week in one semester.*

10 College Literature.

A general survey course of English literature. Textbooks: *Century Readings for a course in English Literature*, edited by J. W. Cunliffe, J. F. A. Pyre, and Karl Young, and *Century Outlines for a course in English Literature*, compiled by F. A. Pyre, T. H. Dickinson, and Karl Young. *Three hours a week throughout the year.*

11 Shakespeare.

The following plays are studied: First Semester: *Love's Labour's Lost, Henry V., The Tempest, Midsummer Night's Dream, Romeo and Juliet, The Merchant of Venice, As You Like It.* Second Semester: *Twelfth Night, Hamlet, Othello, Macbeth. Antony and Cleopatra, Coriolanus, A Winter's Tale.* Text-book, *Shakespeare's Principal Plays*, edited by Brooke, Cunliffe, and MacCracken. *Three hours a week throughout the year.*

12 a Browning.

A careful study of the poet's life, followed by the reading and interpretation of the most important of his poetical works. Text-book, The Globe Edition of Browning's works. *Two hours a week in the first semester.*

12 b **Tennyson.**

The study of Tennyson's development as a poet. Nearly all the poems are read in class. Text-book, The Globe Edition of Tennyson. *Two hours a week in the second semester.*

13 a **The Romantic Movement.**

A study of the movement in general, followed by particular study of the poetical works of Coleridge, Wordsworth, Byron, Shelley, and Keats. Text-book, Page's *British Poets of the Nineteenth Century. Two hours a week in the first semester.*

13 b **The Victorian Era.**

A continuation of 13 a. Study of the poetical works of Landor, Browning, Tennyson, Rossetti, Arnold, Morris, and Swinburne. Text-book the same as for 13 a. *Two hours a week in the second semester.*

14 **Ballads and Folklore.**

English and Scottish popular ballads. Origin of ballads in relation to origins of art. Text-book, *English and Scottish Popular Ballads,* edited by Sargent and Kittredge, from the collection by F. J. Child. *Two hours a week in the first semester.*

15 **Modern Drama.**

A study of the drama of the nineteenth and twentieth centuries in relation to the work of Ibsen. *Two hours a week in one semester.*

16 **English Novel.**

An historical survey of the whole period of the English novel. Lectures, class exercises, and occasional papers. *Two hours a week in one semester.*

Note—Courses 2 and 10 to 16 are not given every year. In 1919-1920, courses 10 and 11, and perhaps others will be offered.

History

1 **Medieval History.**

Brief preliminary survey of ancient European history. Study of Medieval Europe from the barbarian invasions to the 16th

century. Lectures, recitations, and written tests. Text-book, Robinson and Breasted's *Outlines of European History,* supplemented by Emerton, *An Introduction to the Study of the Middle Ages* and *Mediaeval Europe,* with other works. Required in the sophomore year. *Three hours a week in the first semester.*

2 Modern History.

The history of Europe from the Reformation to the present time. Lectures, oral and written tests. Robinson and Breasted's *Outlines* and supplementary texts. Required in the sophomore year. *Three hours a week in the second semester.*

3 a American History.

Covering the time of discovery, settlement, colonial development, the French Wars and the Revolutionary struggle. *Three hours a week in the first semester.*

3 b American History.

The formation and development of the nation, beginning with the critical time of 1783 and extending through the time of reconstruction after the Civil War. *Three hours a week in the second semester.*

4 a English History.

The history of England from the earliest times to the Reformation. Text-book, Gardiner's *A Student's History of England.* Supplementary reading in other texts and in such special accounts as Cunningham's *The Growth of English Industry and Commerce* and Traill's *Social England. Three hours a week in the first semester.*

4 b English History.

The history of England from the Reformation to the present time Text and assigned readings as in 4 a. *Three hours a week in the second semester.*

5 a Recent Modern History.

From 1815 to 1870. *Three hours a week in the first semester.*

5 b Recent Modern History.

From 1870 to the Present. *Three hours a week in the second semester.*

Political and Economic Science

1 Advanced Civics.

Text-book, Beard's *American Government and Politics* with references to Wilson's *The State*, Bryce's *American Commonwealth*, and other works. *Three hours a week in one semester.*

2 Economics.

Text-book, Bullock's *Introduction to the Study of Economics*, with references to Mill's *Principles of Political Economy* and other standard works. *Three hours a week in one semester.*

Philosophy

1 Descriptive Psychology.

Lectures. Text-book, Angell's *Psychology*, with references to Ladd, James, and other authors. Required in the sophomore year. *Three hours a week in the first semester.*

2 Experimental Psychology.

Lecture. Text-book, Seashore's *Elementary Experiments in Psychology*. Required in the sophomore year. *Three hours a week in the second semester.*

3 Logic.

Lectures. Text-book, Creighton's *Introductory Logic*, with references to Mill, Bosanquet, and other authors. Required in the junior year. *Three hours a week in the first semester.*

4 Introduction to Philosophy.

Lectures and discussion. Text-book, Paulsen's *Introduction to Philosophy*. Required in the junior year. *Three hours a week in the second semester.*

5 Ethics.

Lectures. Text-book, Dewey and Tuft's *Ethics* with references to bibliography. Required in the senior year. *Two hours a week throughout the year.*

Education

1 History of Education.

Lectures. Monroe's *Text-book*, with references to extensive bibliography. Required of those who wish to obtain teacher's state certificates. *Two hours a week throughout the year.*

2 Educational Psychology.

Lectures. Text-book, Lange's *Apperception* with references to bibliography. Required of those who wish to obtain state teachers' certificates. *Three hours a week in one semester.*

3 Pedagogy.

Lectures on the principles of teaching. Extensive bibliography. Practical work in teaching. *Three hours a week in the second semester, usually in the senior year.*

Latin

B Beginners' Latin.

For students without previous work in Latin. The elements of Latin and Caesar's *Gallic War,* Books I-III or selected portions from Books I to V. *Five hours a week throughout the year.*

A Cicero and Virgil.

Six orations of Cicero and six books of Virgil's *Æneid.* Prose composition. *Five hours a week throughout the year.*

1 Livy or Cicero.

Selections from Livy, Books I. and II., or XXI. and XXII., or else either Cicero's Essay on *Old Age* or on *Friendship,* supplemented by Virgil's Pastoral Poems. Exercises in writing Latin once a week. *Four hours a week in the first semester.*

2 Horace.

Selections from the Odes, Epodes, and Epistles. *Four hours a week in the second semester.*

3 Tacitus.

The *Treatise on Germany* and the *Life of Agricola. Three hours a week in the first semester.*

4 Roman Satire.

Selections from Horace and Juvenal. *Three hours a week in the second semester.*

5 Latin Composition.

Open to students who have completed courses 1 and 2. *One hour a week throughout the year.*

6 Cicero's Letters.

About fifty letters will be read with emphasis on the character and age of Cicero. The course is designed to throw light on the causes of the fall of the Roman Republic. *Three hours a week in the first semester.*

7 Roman Drama.

Selected plays of Plautus and Terence. *Three hours a week in the second semester.*

8 Advanced Latin Composition.

Open to students who have completed courses 1 to 5. *One hour a week throughout the year.*

9 Rapid Reading Course.

a. Quintus Curtius, b. Sallust, c. Caesar, Book VII, d. Nepos, e. Ovid, *One hour a week throughout the year.*

10 Lucretius.

Selections from the poem on the *Nature of Things. Two hours a week in one semester.*

11 Catullus.

Selections from the Poems. *Two hours a week in one semester.*

12 Pliny the Younger.

Selections from the Letters. *Two hours a week in one semester.*

13 Suetonius.

The Life of Augustus. A course designed to throw light on the founding of the Roman Empire. *Three hours a week in one semester.*

14 **Tacitus.**

The Life and times of the Emperor Nero. The later books of the *Annals* will be the text. *Three hours a week in one semester.*

15 **The Teaching of Latin.**

A review of the four years of High-School Latin, comparison of text-books, and practice teaching, with a rapid survey of Latin literature. Supplementary reading is required. A note-book must be kept. *Two hours a week throughout the year.*

16 **Special Subjects.**

a. Roman Customs, b. Roman Religion, c. Roman Law, d. Roman Political Institutions. *Two hours a week in one semester.*

17 **Late Latin.**

Latin hymns, with portions of the New Testament read in class at sight. *Two hours a week in one semester.*

Note—Courses 3 to 17 are not all given every year. In 1919-1920, courses 11, 12, and 13, will be offered.

Greek

B Beginners' Greek.

The elements of Greek and Xenophon's *Anabasis*, Books I and II. *Four hours a week throughout the year.*

A Xenophon and Homer.

The *Anabasis*, Books III and IV, and the *Iliad*, Books I-III, or the *Odyssey*, Books I-IV. Greek Composition accompanies the Anabasis. *Four hours a week throughout the year.*

1 **Homer and Lysias.**

Homer's *Odyssey*, Books V-XII, or the *Iliad*, Books IV-VI, and selections, in the first semester; Lysias, with grammar and composition, and the *Philippics* of Demosthenes in the second semester. *Five hours a week.*

2 **Advanced Greek.**

The Alcestis of Euripides, selections from Herodotus and Thucydides, and Jebb's *Primer of Greek Literature*, in the first

semester. Plato's *Apology* and *Crito* Thucydides, in the second semester. *Three hours a week.*

3 Dramatic Poets.

Two plays of Æschylus, Sophocles, or Euripides and the study of meters in the first semester. Plays of Aristophanes with discussion of the Attic Drama and Theatre in the second semester. *Three hours a week.*

4 Poets and Orators.

Greek Lyric Poets in the first semester: Greek Orators in the second semester. *Three hours a week.*

5 Plato.

Selected Dialogues. *Twice a week throughout the year.*

French

1 First Year French.

Work in grammar, reading, conversation, and phonetics, based upon Fraser and Squair's *French Grammar.* Additional texts read during the year. *Four hours a week throughout the year.*

2 Second Year French.

Translation and criticism of standard French authors, following the development of French literature from the seventeenth century through the nineteenth century. Composition one hour a week. *Four hours a week throughout the year.*

3 Composition and Conversation.

For students who wish to do advanced work in composition, conducted wholly in French. *Two hours a week throughout the year.*

4 General Survey.

A brief survey of the whole field of French literature, showing main divisions and placing representative authors. Lectures and collateral reading. *Three hours a week throughout the year.*

5 Nineteenth Century Drama.

Study and criticism of representative dramatists, such as

Hugo, Dumas-Fils, Angier, Scribe, Rostand, and others. Lectures and assigned reading. *Three hours a week in the first semester.*

Spanish

1 First Year Spanish.

De Bitis' *Spanish Grammar.* Translation of selections from *Gil Blas. Four hours a week throughout the year.*

2 Second Year Spanish.

Translation of selections from the *Don Quijote* of Cervantes and from more modern writers. *Two hours a week throughout the year.*

3 Commercial Spanish.

For students who wish practical work in business Spanish, writing letters, advertisements, making out bills, etc. *Two hours a week throughout the year.*

German

B Beginners' German.

For students without previous work in German. *Five hours a week throughout the year.*

1 Freshman German.

Modern prose, narrative and dramatic, and a drama by Lessing or Schiller. Review of the grammar and syntax. Written and oral exercises. Open to those who have had German B or who offer two entrance units of German. *Four hours a week throughout the year.*

2 Classical and Modern Writers.

Selections from nineteenth century novelists and at least two important dramas by Goethe or Schiller. Written exercises. For students who have had German 1. *Three hours a week throughout the year.*

3 German Composition and Conversation.

This course is especially intended for those who look forward to teaching. *Two hours a week throughout the year.*

4 **Sight Reading.**

Rapid translation of literary prose and articles in current magazines and newspapers. *Two hours a week (one hour credit) throughout the year.*

5 **Modern German Dramatists.**

Selected dramas from Grillparzer, Hebbel, Ludwig, Hauptmann and Sudermann, or several dramas of one of these authors, with critical study of his life and works. *Two hours a week in the first semester.*

6. **Modern German Novelists.**

Readings from Scheffel, Freytag, Keller, Sudermann and Frensson. Representative selections will be read in class and others will be assigned for private reading. *Two hours a week in the second semester.*

7 **Goethe.**

An introduction to the works of Goethe chosen from the different periods of his literary activity, including Faust. *Two or three hours in the first semester.*

8 **German Epic, Ballad, and Lyric Poetry.**

The course gives a hasty survey of German poetry from the Middle Ages to the present time, including parts of the *Nibelungenlied*, Court Epics, and characteristic *Minnelieder*, in Modern German translations, and selections from leading poets of the eighteenth and nineteenth centuries. Reports on assigned reading. *Two hours a week in the second semester.*

9 **Special Courses.**

Other courses may be arranged, as the critical study of one author, as Goethe, or of one period, as the Romantic period, or a general survey of the history of German literature.

10 **The Teaching of German.**

A course in methods of teaching German, for those intending to become teachers. *Two hours a week in one semester.*

Mathematics

A Solid Geometry.

Ford and Ammerman's Solid Geometry. For those who have not had solid geometry in the high school. *Three hours a week in either semester.*

1 Algebra.

Skinner's *College Algebra.* Review of elementary algebra, properties of quadratic equations with emphasis on their graphical interpretations, binomial theorem, variation, progressions, permutations and combinations, and general theory of equations. Required in the freshman year. *Three hours a week in the first semester.*

2 Plane Trigonometry.

Passano's *Plane and Spherical Trigonometry.* Theory of trigonometric functions, solutions of triangles, elements of logarithms, and complex numbers. Required in the freshman year. *Three hours a week in the second semester.*

3-4 Analytic Geometry.

Dowling and Turneaure's *Analytic Geometry.* Systems of co-ordinates, loci and their equations, equations and their loci, loci of first order, of second order, and of higher orders, analytic geometry of space. Open to those who have taken courses 1 and 2. *Three hours a week throughout the year.*

5-6 Calculus.

March and Wolff's *Calculus.* Theory of limits, differentiation, integration, areas, lengths of arcs, maxima and minima, successive integration, curvature, evolutes, series, expansion of functions. Open to those who have had course 3-4. *Three or four hours a week throughout the year.*

7 Differential Equations.

An elementary treatment of differential equations with applications to physics and mechanics. Open to those who have taken courses 5 and 6. *Three hours a week in the first semester.*

8 Surveying

Recitations and problems in the determination of heights, distances, and areas. Field practice with the chain, the tape, the transit, and the level. Open to those who have taken course 2. *Two hours a week in either semester.*

9 Solid Analytic Geometry.

Snyder and Sisam's text. Determinants. Lines, planes, and surfaces. Properties of quadric surfaces. Homogeneous and tetrahedral co-ordinates. Required of those who take their major in mathematics. *Three hours a week in the first semester.*

10 The Teaching of Mathematics.

A course for those who will teach in high schools. A review of high school mathematics and comparison of text-books. Practical work in teaching. *Two hours a week in one semester.*

Astronomy

1 Introduction to Astronomy.

Moulton's text. A descriptive course designed to give the student familiarity with the solar system, the principal constellations, and the brighter stars. The results of modern investigations are discussed. Open to students beyond the freshman year. *Three hours a week in the second semester.*

Drawing

1 Mechanical Drawing.

Phillips and Orth's *Mechanical Drawing.* Free-hand drawing in perspective and in orthographic projection, use of instruments, lettering, working drawings, tracing, blue printing. Open to freshmen. *Three hours a week throughout the year.*

Physics

B Elementary Physics.

Text-books: Millikan and Gale's *First Course in Physics*, Millikan and Gale's *A Laboratory Course in Physics.* Open for credit to freshmen who have not offered physics for entrance *Five hours a week throughout the year.*

1 General Physics.

Kimball's *College Physics.* Lectures and recitations, three hours a week. Laboratory practice, four hours a week. Open to those who have taken Mathematics 1 and 2. *Full study throughout the year.*

2 Heat and Light.

Advanced course of lectures. Open to those who have taken course 1. *Three hours a week in the first semester.*

3 Electricity and Magnetism.

Advanced course of lectures. Open to those who have taken course 1. *Three hours a week in the second semester.*

Chemistry

1 General Chemistry.

The subjects covered in this course will include a careful study of the occurrence and properties of the elements, together with laws governing all chemical reactions. Prerequisite: Elementary physics; high school chemistry is recommended. Lectures or recitations three hours per week with two double laboratory periods per week throughout the year. *Five hours credit in each semester.*

2 Qualitative Analysis.

The detailed separation of the metals, non-metals and acid radicals. The student is required to apply the theory of course 1, and explain the reason for each reaction. The ionic theory, solubility product, laws of concentration, hydrolysis, amphoteric hydroxides, etc., are studied and applications made in the separations. Required of major students. Prerequisite: course 1. One lecture or recitation with four hours of laboratory work per week throughout the year. *Three hours credit in each semester.*

3 Quantitative Analysis.

The work embraces the principal methods of gravimetric, volumetric, and electro-chemical analysis, and the use of refer-

ence works and chemical journals. This course gives quantitative application of the laws studied qualitatively in course 2. Required of major students. Prerequisite: courses 1 and 2. One lecture or recitation with four hours of laboratory work per week throughout the year. *Three hours credit in each semester.*

4 Organic Chemistry.

A study of the methods of preparation and the properties of the more important organic compounds. Special stress is laid upon the theories underlying the subject and the proofs of the constitution of most of the substances studied. Required of major students. Prerequisite: course 1. Two lectures or recitations and three hours of laboratory work per week throughout the year. *Three hours credit in each semester.*

5 Physical Chemistry.

A course presenting the conceptions of modern physico-chemical theories concerning the states of aggregation of matter. The first semester is taken up with a detailed study of quantitative laws governing gases, liquids, solids and substances in solution. During the second semester a study of the phase rule and electro-chemistry is taken up and there is a detailed study of the laws of chemical equilibrium. Prerequisite: courses 1 and 2. Two lectures or recitations per week throughout the year. *Two hours credit in each semester.*

6 Household Chemistry.

In the first semester a careful study is made of the occurrence and properties of elements, together with laws governing chemical reactions. During the second semester practice is given in the standard methods for the analysis of foods and the detection of adulterants. This course is a preparation for the study of domestic science. Prerequisite: Elementary physics; high school chemistry is recommended. Two lectures or recitations and two hours of laboratory work per week throughout the year. *Three hours credit in each semester.*

Biology

1 Biology.

Microscopy, Plant and Animal Biology. Laboratory work and lectures. Open to freshmen and sophomores. *Two hours each day. Five times a week throughout the year.*

2 Physiology.

Anatomy, Physiology and Hygiene. Open to sophomores and juniors. *Five times a week in the first semester.*

3 Zoology.

Laboratory work. Special studies and a summary thesis. Open to sophomores and juniors. *Two hours each day. Three times a week in the second semester.*

4 Botany.

Laboratory work. Special studies and a summary thesis. Open to sophomores and juniors. *Two hours each day. Three times a week in the second semester.*

5 Special Research.

Opportunity offered for work in a limited field. Credit to be arranged.

Geology

1 Physiography and Dynamic Geology.

Lectures, review papers and discussions. Open to juniors. *Five times a week in the first semester.*

2 Paleontology.

Class work, field studies, and a thesis. Open to juniors. *Five times a week in the second semester.*

English Bible

1 Old Testament.

Lectures and a study of the text of the American Standard Revision. Analysis of the Old Testament with introduction. Elective. *Three hours a week throughout the year.*

2 **New Testament.**

Lectures and a study of the text of the American Standard Revision. Analysis of the New Testament with introduction. Elective. *Three hours a week throughout the year.*

Note:—In 1919-1920, course 2 will be given.

Public Speaking

1 **Public Speaking.**

Text-book, Phillip's Effective Speaking. Should be taken during the sophomore year if possible, certainly by the junior year. May be taken in the freshman year by well prepared students. *Two hours a week throughout the year.*

2. **Advanced Public Speaking.**

Open to those who have had Public Speaking 1. No text-book required. This is a course in debating and the study of speeches by famous orators. *Two hours a week throughout the year.*

3 **Course in Dramatic Reading.**

Study of dramatic selections from Shakespeare and other standard authors. *Two hours a week throughout the year.*

ATHLETICS AND PHYSICAL TRAINING

Both Athletics and Physical Training are in charge of a Physical Director and a Medical Adviser. All students, at the opening of the year must submit to a physical examination by competent physicians. Regular work in gymnasium classes is carried on throughout the year. Military training may be substituted for the work in gymnastics for men and receives the same credit. See under "Required Work," page 26.

STUDENTS' ARMY TRAINING CORPS

During October, November, and December, 1918, a joint unit of the S. A. T. C. was maintained at Milton College and the State Normal School at Whitewater. At Milton fifty-five men were inducted. Goodrich Hall was used as barracks, and a mess hall was arranged in the basement of the main college building. Under instructions from the War Department three courses of study were arranged as follows:

1. For men 20 years old and over: Military Law, Military Surveying, Hygiene and Sanitation, and a course on the Issues of the War.

2. For men 19 years old: Military Surveying and War Issues with two college studies, in most cases French and chemistry or French and mathematics.

3. For men 18 years old, for the most part freshmen: English, French, mathematics or chemistry, and War Issues.

These academic courses were all arranged to occupy fourteen hours a week. Military exercises occupied eleven hours a week. Supervised study was enforced in the evenings and at hours between 10 and 12 a. m., and 1 and 4 p. m., when the men were not engaged in class exercises.

Students who were members of the Students' Army Training Corps are listed with an asterisk in the catalogue of students on pages 52 and following. The names of the officers in charge are included with the faculty on page 9.

MUSIC

Work in music has always been a prominent element in Milton College. It has been carried on under the title, "School of Music," and all courses when completed are certified under that name.

The principal courses in music are the following: Voice Culture, Harmony, Pipe Organ, Pianoforte, Violin, Viola, and Violoncello.

Two years' study of Harmony, one year of the Theory of Music, and a course in the History of Music are required in the Pianoforte, Voice Culture, and stringed instrument courses; and at least the first two grades of one of the instrumental courses is a prerequisite of the completion of the Harmony and Voice Culture courses.

Pupils having completed any one of the foregoing courses and having a full high school course or its equivalent are entitled to a certificate of graduation in the course pursued.

A detailed statement of the work in music is given in the catalogue for the year 1916-1917, copies of which may be obtained at the college office.

To aid students in the instrumental courses, classes in sight playing and for ensemble work are organized for practice in the playing of duos, trios, and work for the pianoforte and stringed instruments; also recitals are given from time to time as an essential means of training for students in these courses.

These adjuncts to musical training are free, and students in instrumental courses are expected to attend them. Those who are prepared to take allotted parts may receive the benefit of the weekly practice of the college orchestra.

The Chapel Choir, Choral Union, Glee Club, and Treble Clef afford an opportunity for students to obtain practice in chorus singing.

Fees

The tuition in the School of Music is estimated as per half-semester, or quarter, of nine weeks.

Pipe Organ, one lesson a week	$13.50
Pianoforte, two lessons a week	14.00
The same, one lesson a week	7.50
Kindergarten, two lessons a week, in classes	4.50
Stringed Instruments, two lessons a week	14.00
The same, one lesson a week	7.50
Voice Culture, two half-hour lessons a week	13.50
The same, one half-hour lesson a week	7.50
Elementary Vocal Music, in classes	$1.00 to 2.00
Theory of Music	1.00
Harmony	7.50

Tuition is to be settled in advance at the beginning of each quarter. No reduction will be made to pupils who miss their lessons, except in the case of prolonged absence on account of sickness or other unavoidable circumstances.

CATALOGUE OF STUDENTS

COLLEGE

Senior Class

*Harold Ormand Burdick	Dunellen, N. J.
Marjorie Janette Burdick	Dunellen, N. J.
Dessie Neil Davis	Farina, Ill.
Pearl Rosina Gaarder	Orfordville
Nan Elizabeth Grundy	Janesville
Georgia Ella Holbrook	Janesville
*Walter Alexander Kenyon	Hopkinton, R. I.
Henrietta Clara Knuth	Janesville
Gladys Ione Pelton	Janesville
Leland Campbell Shaw	Plainfield, N. J.
John Harold Thorngate	Exeland

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Junior Class

Isaphene Olive Allen	Farina, Ill.
Frank Leman Allen	North Loup, Nebr.
Charles Raymond Hield	Janesville
John Edward Holmes	Milton
Maurice Walton Ingham	Fort Wayne, Ind.
*Noble Curtis Lippincott	Milton
*George Olaf Johnson	Port Wing
Estella Tuttle Pearce	Belleville
*Howell Sheppard Randolph	Milton
Helen Shaw	Yonkers, N. Y.
Stephana Shaw	Plainfield, N. J.
Harry Elno Talbot	Milton
*Clifford Clarke Thomas	Milton
Eloise Marguerite Thomas	Albion
Helen Marguerite Thorngate	Exeland
Vesta May Thorngate	North Loup, Nebr.

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Sophomore Class

Eugene Howard Bond	Farina, Ill.
Vera Evelyn Coon	Milton Junction
Henry Arthur Curtis	Milton
Goldie Estelle Davis	Milton
Mabel Lucile Dunwiddie	Janesville
Marion Ewing	Janesville
*Floyd Fay Ferrill	Farina, Ill.
Ruby Elizabeth Fetherston	Milton
Gertrude Gessler	Bangor
*Thomas Russell Griffin	Janesville
Nina Mae Haskins	Milton
*Clarence Edwin Hillstrom	Park City, Utah
Paul Allen Holmes	Milton
*Herbert Paul Kakuske	Janesville
*Stephen Redford Lawton	Albion
*Ernest Milo Lunda	Orfordville
Dorothy Geraldine Maxson	Milton
*Neal Dow Mills	Battle Creek, Mich.
Mildred Ream Palmiter	Edgerton, R. F. D.
Mary Madeline Pepper	Evansville
*Vincent Raukuce	Wilna, Poland
*Harold Romaine Rehberg	Janesville
Bertha Sybil Reid	Exeland
Ruth Zinn Schlagenhauf	Farina, Ill.
Ruth Almira Schrader	Milton Junction
*Gregory Andreivitch Shadko	Marion, Mich.
*David William Smith	Milton
*James Irish Stillman	Milton
Edith Lyle Stockman	Milton Junction
Winifred Ottilie Van Horn	Milton
*Carroll Omar Whaley	Janesville
Dorothy Kent Wheeler	Boulder, Colo.
Hazel Irene White	North Loup, Nebr.

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Freshman Class

Dorothy Mary Ann Agnew	Milton Junction
Mabel Florence Arbuthnot	Janesville
Doris Lucile Babcock	Milton
*George Stillman Babcock	Milton

*Henry W. Babcock	Walworth
Ruth Maribel Babcock	Milton
Cleone Bingham	Milton
Henry Chase Black	North Loup, Nebr.
*Merle Ellsworth Bond	Farina, Ill.
*Rex Porter Bond	Garwin, Iowa
*Malcolm Loofboro Boss	Milton
*Vance Leon Brasel	Farina, Ill.
*William Stillman Burdick	Milton
Jessie Sarah Rebecca Burnett	Milton
*Merlin J. Chadsey	Walworth
Theodore Morrison Chang	Shanghai, China
*Stuart Carlton Conway	Albany
Gaylord Palmer Coon	Janesville
Marion Elvira Coon	Milton Junction
Tacy Mildred Coon	Battle Creek, Mich.
Gladys Ann Dent	New York, N. Y.
*William Clarke Finley	Janesville
*Dean Stanley Fox	Milton
*Cronje Roberts Goddard	New Auburn, Wis.
*Leslie Alvin Hagar	Janesville
*Charles Michael Hildibrand	Farina, Ill.
*Walter Hudson	Milton
Etta Martha Hodge	Dodge Center, Minn.
*Harry C. Jacobson	Albany
*Joe Ewing Johnson	Stone Fort, Ill.
*William James Kober	Janesville
Alice Lenore Kumlien	Dundee, Ill.
Myrtle Emma Lewis	Dodge Center, Minn.
*Truman Glade Lippincott	Milton
*Albert Leroy Losey	Brodhead
*David Hanson MacCulloch	Janesville
*Philip Butler Marquart	Milton Junction
Ina Adelle Maxson	West Edmeston, N. Y.
*Arthur Maxson Mills	Westerly, R. I.
*Harry John Nelson	Clinton
*Chester Davis Newman	Milton
*Robert John Oliver	Albany
*Clayton Garfield Orcutt	Fontana
*Walter Lee Osborne	Farina, Ill.
Jessie Violet Post	Milton
*Earl Dayton Randolph	Milton Junction
Iva Marie Schrader	Milton Junction

*Basil Andreivitch Shadko	Marion, Mich.
*Harold Eugene Smith	Janesville, R. F. D. 3
*Bertie Van Dreser	Walworth
*Bert Henry Waterman	Milton
*Rex Presley White	North Loup, Nebr.
*Laurence Arthur Wright	Janesville
*Cecil Ruben Woodford	Janesville

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Special Students

Arlene Borden	Milton
Esther Crandall	Milton
William Shultis Carr	Milton
Sarah Alice Crouch	Nortonville, Kan.
Hazel Marie Davis	Milton
Howard McKinley Emerson	Milton
Bert Ellsworth Garey	Edgerton
Harvey Edward Holmes, Jr.	Milton
Dora Lenora Hurley	Milton
Pearl Idelle Moxley	Nortonville, Kan.
James K. Shiba	Okayamaken, Japan
Hazel Jennie Van Horn	Nortonville, Kan.
Agnes Willeta Vincent	Milton

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*Members of the Milton unit of the Students' Army Training Corps.

SCHOOL OF MUSIC

Harmony

Phyllis Campbell	Milton
Marion Elvira Coon	Milton Junction
Ruth Zinn Schlagenhauf	Farina, Ill.

—3

Pianoforte

Genevieve Alys Ayers	Milton
Charlotte Gertrude Babcock	Milton
Doris Lucile Babcock	Milton

Corliss Baker	Milton Junction
Marjorie Janette Burdick	Dunellen, N. J.
Relda Louise Burdick	Milton
Ruth Burdick	Milton
Mildred M. Campbell	Milton
Phyllis Campbell	Milton
Mary Ellen Crandall	Milton
Walter Theodore Crandall	Milton Junction
Vera Evelyn Coon	Milton
Sarah Alice Crouch	Nortonville, Kan.
Frances Ellis	Milton
Frieda Einerson	Milton Junction
Wendall E. Einerson	Milton Junction
Martha Genevieve Fisher	Milton Junction
Ivan Owen Gahagan	Milton Junction
Mary Gahagan	Milton Junction
Gertrude Gessler	Bangor
Ruth Hansen	Johnstown
Nina Mae Haskins	Milton
Doris Helen Holston	Milton Junction
Martha Louise Hughes	Milton Junction
Florence Julia Hull	Whitewater, R. F. D.
Bertha Lipke	Milton
Marian L. Lee	Milton
Ruth Meileck	Milton Junction
Pearl Idelle Moxley	Nortonville, Kan.
Charles North	Milton
Janet Paul	Milton Junction
Ruth Paul	Milton, R. F. D.
Jessie Violet Post	Milton
Iva Marie Schrader	Milton Junction
Willard Franklin Shadel	Milton Junction
Ruth Zinn Schlagenhauf	Farina, Ill.
Lillian Spence	Lima
Gladys Stone	Lima
Arlene Stockman	Milton Junction
Catherine Thorpe	Milton Junction
Hazel Jennie Van Horn	Nortonville, Kan.
Marie M. Vickerman	Milton
Angela Wierzbricka	Chicago, Ill.
Venice Leona Wileman	Milton Junction
Dorothy Euphemia Whitford	Milton
Bernice Will	Johnstown

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Voice Culture

Marion Elvira Coon	Milton Junction
Sarah Alice Crouch	Nortonville, Kan.
Pearl Idelle Moxley	Nortonville, Kan.
Laura McBride	Milton
Hazel Jennie Van Horn	Nortonville, Kan.

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Violin

Rolland Barker	Milton
Henry Chase Black	North Loup, Nebr.
William Stillman Burdick	Milton
Vincent Raukuce	Wilna, Poland
Basil Andreivitch Shadko	Marion, Mich.
Gregory Andreivitch Shadko	Marion, Mich.
Grace Waterman	Milton
Winifred Ottilie Van Horn	Milton

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Milton College Orchestra

FIRST VIOLINS:
Miss Goldie Davis, Principal
Miss Ardis Bennett
Miss Ruth Bingham
Miss Arlene Borden
Mrs. Ellen Place
Miss Doris Randolph
Mr. G. A. Shadko

SECOND VIOLINS:
Miss Dorothy Maxson, Principal
Miss Marjorie Burdick
Miss Pearl Gaarder
Mr. Vincent Raukuce
Mr. Lorraine Summers
Miss Winifred Van Horn

VIOLAS:
Miss Alberta Crandall, Principal
Dr. G. W. Post, Sr.

VIOLONCELLOS:
Miss Cleone Bingham, Principal
Miss Constance Bennett
Mr. T. G. Lippincott

BASS VIOLS:
Miss Anna Post, Principal
Miss Alice Crouch

FLUTES:
Mr. N. C. Lippincott, Principal
Miss Dora Hurley
Mr. N. D. Mills

CLARINET:
Mr. M. J. Chadsey

SAXOPHONES:
Miss Ruth Babcock
Mr. M. L. Boss

HORNS:
Mr. C. D. Newman
Mr. E. M. Lunda

CORNETS:
Mr. E. H. Bond
Mr. D. S. Fox
Mr. J. E. Johnson
Mr. L. H. North

TROMBONE:
Mr. H. S. Randolph

DRUM:
Mr. T. G. Lippincott

PIANISTS:
Miss Doris Babcock
Miss Jessie Post
Miss Ruth Schlagenhauf

ORGANIST:
Mrs. Kathryn Rogers

LIBRARIAN:
Miss Doris Babcock

Treble Clef

FIRST SOPRANOS:
Phyllis Campbell
Alberta Crandall
Pearl Gaarder
Gertrude Gessler
Dorothy Maxson

SECOND SOPRANOS:
Marion Coon
Alice Crouch
Mabel Dunwiddie
Marion Ewing
Lenore Kumlien

FIRST ALTOS:
Marjorie Burdick
Vera Coon
Jessie Post
Marguerite Thorngate
Ruby Van Horn
Dorothy Wheeler

SECOND ALTOS:
Henrietta Knuth
Myrtle Lewis
Pearl Moxley
Anna Post
Helen Shaw

SUMMARY OF THE CATALOGUE OF STUDENTS

College

Senior Class	11
Junior Class	16
Sophomore Class	33
Freshman Class	54
Special Students	13
Total	127

School of Music

Harmony	3
Pianoforte	46
Voice Culture	5
Violin	8
Treble Clef	21
Orchestra	39
Total in the School of Music counted once	95
Total in the School of Music not in the College	51
	178

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MILTON COLLEGE

UNIVERSITY OF CALIFORNIA
MAY 19 1920

Catalogue
1919-1920

MILTON COLLEGE

Catalogue

1919-1920

CALENDAR FOR YEAR 1920-1921

1920		
Sept. 20-22	Monday-Wednesday	Registration days
Sept. 23	Thursday	First semester begins
Nov. 25-28	Thursday-Sunday	Thanksgiving recess
Dec. 22	Wednesday	Sophomore and Junior orations due
Dec. 23	Thursday	Christmas recess begins
1921		
Jan. 4	Tuesday	Recitations resumed
Jan. 20	Thursday	Day of prayer for colleges
Jan. 24-28	Monday-Friday	Registration days for second semester
Jan. 31-Feb. 4	Monday-Friday	Final examinations, first semester
Feb. 7	Monday	Second semester begins
Mar. 1	Tuesday, 8 P. M.	Oratorical contest
Mar. 8- 9	Tuesday-Wednesday	Basketball tournament
Mar. 23-29	Wednesday-Tuesday	Spring recess
Mar. 30	Wednesday	Recitations resumed
May 30	Monday	Memorial Day
June 6-10	Monday-Friday	Final examinations, second semester
June 10-16	Friday-Thursday	Commencement Week

Commencement Exercises, 1920, will be held on Thursday morning, June 10, at 10 o'clock.

BOARD OF TRUSTEES

Office expires in 1920

	E. STILLMAN BAILEY, M. A., Ph. D., M. D.,	Chicago, Ill.
	C. EUGENE CRANDALL, M. A., Ph. D.,	Milton
Hon.	PAUL M. GREEN,	Milton
	WALTON H. INGHAM, Ph. B.,	Fort Wayne, Ind.
	GILES F. BELKNAP	Waukesha
	ALBERT S. MAXSON, M. D.,	Milton Junction
	LESTER M. BABCOCK, M. A., D. D. S.,	Milton
	GEORGE E. COON, M. D.,	Milton Junctio ¤
	JUSTIN H. BURDICK, M. D.,	Milton

Office expires in 1921

Prof	ALBERT WHITFORD, M. A.,	Milton
	WILLIAM B. MAXSON,	Milton
	GEORGE R. BOSS,	Milton
	J. NELSON HUMPHREY, M. A.,	Whitewater
	FRED C. DUNN,	Milton
	JAMES B. BORDEN, M. A.,	Madison
	JAMES H. COON,	Milton
	TRUMAN A. SAUNDERS,	Milton
	GEORGE W. POST, M. A., M. D.,	Chicago, Ill.

Office expires in 1922

	L HARRISON NORTH,	Milton
	ALLEN B. WEST, M. A.,	Milton Junction
Rev.	WILLIAM C. DALAND, M. A., D. D.,	Milton
	WILLIAM B. WELLS, M. A., M. D.,	Riverside, Cal.
Rev.	HENRY N. JORDAN, M. A.,	Milton
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FACULTY

WILLIAM CLIFTON DALAND, M. A., D. D., President, Professor of the English Language and Biblical Literature.

B. A., Brooklyn Polytechnic Institute, 1879; Student, Union Theological Seminary, New York City, 1883-'86; M. A., Alfred University, 1887; D. D., Milton College, 1896; D. D., Alfred University, 1903; Organist and Teacher of Music, Elizabeth, N. J., and Brooklyn, N. Y., 1874-'86; Pastor, Leonardsville, N. Y., 1886-'91; Pastor, Westerly, R. I., 1891-'96; Pastor, London, England, 1896-1900; Pastor, Leonardsville, N. Y., 1900-'02; President, Milton College, since 1902.

ALBERT WHITFORD, M. A., Professor Emeritus of Mathematics and Astronomy.

WALTER DAVIS THOMAS, M. A., Professor of Greek and History.

Graduate, Union Academy, Shiloh, N. J., 1873; Teacher Public Schools, 1873-'84; B. A., Milton College, 1884; M. A., Milton College, 1887; Professor of Greek, Milton College, 1884-1916; Graduate Student, Special work in Greek, Summer Term, University of Chicago, 1897; Student in Greek and History, Summer Sessions of University of Wisconsin, 1901 and 1903; Professor of Greek and History since 1917.

ALFRED EDWARD WHITFORD, M. A., Professor of Mathematics and Physics.

B. A., Milton College, 1896; M. A., Milton College, 1901; M. A., University of Wisconsin, 1911; Assistant Principal, Waupun High School, Waupun, Wis., 1896-'97; Principal, Milton Public School, 1897-'99; B. A., University of Chicago, 1900; Graduate student in Physics, University of Chicago, 1900-'01; Professor of Physics and Assistant in Mathematics, Milton College, 1901-'10; Assistant in Mathematics, University of Wisconsin, 1910-'11; Professor of Mathematics and Physics, Milton College, since 1911.

Note—With the exception of the President, professors are named in the order of their appointment.

ALBERT ROGERS CRANDALL, M. A., Ph. D., Sc. D., Professor Emeritus of Natural History and Physiology.

DAVID NELSON INGLIS, M. A., Professor of Romance Languages.

B. A., Milton College, 1905; M. A., University of Wisconsin, 1908; Principal of Graded School, Marquette, Wisconsin, 1905-'07; Student, University of Wisconsin, 1907-'08; Assistant in Romance Languages, University of Wisconsin, 1908-'10. Professor of Romance Languages, Milton College, since 1910.

LEMAN HUFFMAN STRINGER, B. A., Professor of Public Speaking and Instructor in Voice Culture.

B. A., Milton College, 1909; Teacher, West Allis High School, 1909-'12; Professor of Public Speaking, Milton College, since 1912.

HARRIS MERRILL BARBOUR, M. A., Professor of Philosophy and History.

B. A., Brown University, 1906; B. D., Newton Theological Institution, 1909; Minister, Arlington Heights, Mass., 1909-'11; Graduate Student and Assistant in Philosophy, Brown University, 1911-'13; M. A., Brown University, 1913; Professor of Philosophy and History, Milton College, since 1913.

JOHN NORTON DALAND, M. A., Professor of Latin.

B. A., Milton College, 1913; M. A., University of Wisconsin 1914. Professor of Latin, Milton College, since 1914.

WILLIAM DIGHTON BURDICK, B. A., Professor of Chemistry.

B. A., Milton College, 1915. Teacher of mathematics and science in high schools in Wisconsin, 1915-'18; Graduate student in Chemistry, University of Wisconsin, 1919; Professor of Chemistry, Milton College, since 1919.

FRANK GREGORY HALL, B. A., Professor of Biology.

B. A., Milton College, 1917; Instructor in Biology, Milton College, 1917-'18; Graduate student in Biology, University of Wisconsin, 1919; Professor of Biology, Milton College, since 1919.

Mrs. ANNA SOPHIA CRANDALL, M. A., Instructor in German.

B. A., Milton College, 1881; M. A., Milton College, 1885; Instructor, German Language and Literature, Milton College, 1881-'82; Student in Hebrew Language and Literature at Morgan Park Baptist Theological Seminary, 1882-'86; Studied German in Berlin, Germany, 1899-1900; Instructor in German, Milton College, since 1900.

Miss MABEL MAXSON, M. A., Instructor in English Literature.

B. A., Milton College, 1911; M. A., University of Wisconsin, 1912; Instructor in English Literature, Milton College, since 1912.

Miss ANNA ENSIGN POST, B. A., Instructor in English.

B. A., Milton College, 1916; Student in Music, Chicago, Ill., 1916-'18; Instructor in Voice, Milton College, 1918-'19.

Miss VESTA MAE THORNGATE, Assistant in Mathematics.

Miss ETSELLA TUTTLE PEARCE, Assistant in Mathematics.

Mr. JAMES K. SHIBA, Assistant in Mathematics and Physics.

Mr. FRED WELLS CRUMB, Instructor in Mechanical Drawing.

Miss ALBERTA CRANDALL, Instructor in Piano Playing.

Student, Milton College and School of Music, 1893-'98; Certificate Pianoforte Course, 1908; Student and Teacher of Piano, Alfred University 1898-1901; Special student under Dr. W. S. Matthews of Chicago, 1901; Student, New England Conservatory of Music, Boston, Massachusetts, 1902-'03; Student, New England Conservatory of Music, pupil of Carl Baermann, 1907-'08. Instructor in Piano Playing, Theory, and History of Music, Milton College, since 1903.

Miss GOLDIE ESTELLE DAVIS, Instructor in Violin Playing.

Miss MABEL MAXSON, M. A., Librarian.

Prof. A. E. WHITFORD, M. A., Registrar.

Prof. W. D. BURDICK, B. A., Physical Director.

Miss ANNA E. POST, B. A., Matron in Goodrich Hall.

GENERAL INFORMATION

Historical Statement

Milton College is situated in the village of Milton, Rock County, Wisconsin, on the Prairie du Chien division of the Chicago, Milwaukee and St. Paul Railway. At Milton Junction, one mile west of Milton, there is also connection with the Chicago and Northwestern Railway.

Milton College is the outgrowth of a select school opened in the village of Milton in the year 1844. In the year 1848 it was incorporated as Du Lac Academy, which in 1854 was reorganized under the name of Milton Academy. In April, 1867, its charter as a college was granted by the state, and the first class was graduated in 1870.

It has always been a co-educational Christian college of liberal culture. Its ideals have been: honest work of the highest character well and thoroughly performed; the encouragement of self-support among its students; a system of government through supervision by the faculty and co-operation by the students, in which personal honor and good will together with loyalty to the high character of the college have been the chief motives.

Although from its earliest history Milton College has had the closest sympathetic relation with the denomination known as Seventh Day Baptists, who have been its main supporters, nevertheless no sectarian tenets are taught in its classes, and students of all religious faiths are received upon equal terms and allowed the free exercise of their beliefs.

Daily chapel exercises are held which students are expected to attend unless they have conscientious scruples against so doing. The college Y. M. C. A. and Y. W. C. A. hold weekly meetings both separately and in conjunction. The religious and moral atmosphere at Milton has always commanded the sympathy and respect of all Christian people who have been at all acquainted with the college.

Government of the Students.

Students who enter Milton College are expected to observe the rules and regulations that are there recognized as governing the student body. These regulations have grown up during many years and have the force of tradition. Examples of these are: the absolute prohibition of the use of intoxicating liquors, under pain of expulsion; the prohibition of profane and obscene language at all times and in all forms; and the prohibition of card playing, social dancing, and the use of tobacco on the grounds or in the buildings of the college. These rules have from time to time been modified and reduced to the form of a code of simple laws. These are not printed in this catalogue, but are included in the catalogue of 1916-1917, a copy of which may be obtained at the college office.

Recent modifications of regulations in force have been made with the co-operation of the Student Council, a representative body of students elected at the beginning of every year. The Student Council serves to mediate between the faculty and the students as a body and is often called by the President of the college when he wishes to ascertain the attitude of the students on any question of importance to them. At the beginning of the year each college class chooses a class adviser from the faculty. The adviser stands in a close relation to the class and deals with individual students in a personal way.

The government of the students is by the Faculty with the President as its executive head making use of the co-operation of the students. It may be called "Faculty government with student co-operation," in contrast with "Student self-government." There is a form of self-government in operation in Goodrich Hall, the Women's Dormitory.

The "Honor System," technically so called, is not observed.

Faculty supervision is the rule; but personal honor and good will are present in all dealings between teachers and students, who are alike jealous of the honor of Milton College.

The College Year.

The college year, September to June, consists in general of two semesters of eighteen weeks each. There is a vacation of a fortnight at Christmas and a shorter vacation near the end of March. The second semester begins the first week in February. Classes meet on five days of the week only and are held during periods of fifty-five (55) minutes each, changing every hour from 7:30 to 9:30 a. m., and from 10 a. m. to 4 p. m. Chapel exercises are held at 9:30 a. m. Examinations are held during the last week of each semester and tests are held at frequent intervals. For the dates of the next college year see the calendar, page 3 of this catalogue.

Admission of Students.

Students are admitted either as regular or special students. Regular students are those fully prepared for entrance and who in college pursue courses leading to the degree of Bachelor of Arts. Such are classified as members of one or another of the four college classes. Special students are either fully prepared students whose studies in college elected by them are not such as to warrant their classification as regular students, or else students who are not fully prepared, but who are completing their preparation in sub-freshman classes, of which some are ordinarily maintained, partly to meet the needs of such students and partly to afford an opportunity for college seniors to obtain practice in teaching, under the supervision of members of the faculty.

A student applying for admission should present himself on one of the days appointed in the calendar for registration. Admission at any other time must be regarded as exceptional. He should present a certificate signed by a proper officer of the school from which he comes. Blanks for this purpose may be

obtained at the college office. A student coming from another college should present a record of his work and a certificate of honorable dismissal from the college which he has attended. The best time for transfer is at the end of the sophomore or beginning of the junior year. To be graduated a student should spend at least one year, preferably two, in residence.

Entrance Examinations.

Entrance examinations are not required of graduates of any high school or academy which is on the accredited list of preparatory schools published by the University of Wisconsin. Other students may be called upon to submit to entrance examinations in part or in all of the subjects offered for entrance. Entrance conditions may be made up in sub-freshman classes.

An entrance examination in English is required of all entering freshmen, no matter from what school they come. Those who fail to pass this examination enter a sub-freshman class in English.

General Fees per Semester

Tuition fee, for those whose work receives credit of more than ten hours per week	$25.00
Tuition fee, for those whose work receives credit of ten hours per week or less	20.00
Tuition fee, for those whose work is mainly of sub-freshman grade	20.00
Incidental fee, charged to all students, to cover use of Library, Gymnasium, and so forth	5.00
Fee for supervision of a study pursued outside of a class	$1.00 to 5.00
Fee for a special examination	1.00
Fee for physical examination, first semester	.50
Fee for physical examination, second semester	.25
Student Tax, for the support of the Athletic Associ-	

ation, the Oratorical Association, and the Milton College Review, entitling the student to free admission to all regular games, contests, and debates, and to a subscription to the Milton College Review for one semester---------- 2.50

Rent for locker in Gymnasium ---------- .50

Locker rent is usually collected for the year at the beginning of the first semester. The rent for the second semester is refunded if the key is given up at the end of the first semester. A deposit is required of twenty-five cents for the key to the locker.

Laboratory Fees

Biology 1	$4.00
Biology 3 or 4	3.00
Physics 1	4.00
Chemistry 1	4.00
Chemistry 2 or 3	6.00
Chemistry 4	5.00

In addition to the laboratory fees a deposit of two dollars per semester is required for every laboratory course in Chemistry. The amount refunded at the end of the semester is determined by the department of chemistry, and will depend on the chemicals used, and the care exercised by the student in avoiding breakage of apparatus.

Diploma Fee

A diploma fee of five dollars is charged to every one who receives a degree from the college. This fee is charged to graduates in the second semester of their senior year.

Payment of Fees

All fees are payable in advance.

Before entering classes at the beginning of a semester, students are required to visit the Treasurer of the college and either settle their accounts or make arrangements for the settling of the same.

A Late Registration fee of two dollars ($2.00) is charged to those who do not present themselves for registration and the satisfactory arrangement for the settlement of their accounts either during the days appointed for registration or on the first day of the semester. See calendar. The late registration fee is charged to those who enter classes at any other time than the beginning of the semester.

Refunding of Bills Paid

Imperative absence of half a semester or more caused by illness or other necessity may be a ground for the refunding of tuition or other fees paid by a student. On proper advice from the faculty the Treasurer will in such a case refund half the amount of the fees.

Rooms and Board

Rooms for women in Goodrich Hall are heated by steam and lighted by electricity. The charges vary from $1.20 to $1.50 a week, according to the number of women in the Hall. Beds and bedding and furniture aside from bedsteads, tables, and chairs are supplied by the students.

Students who wish to board themselves may hire convenient rooms in private houses at about the same rate. Rooms and board may be obtained in private families at from $5.00 to $6.00 a week. Table board in club or private family varies from $4.00 to $5.00 a week.

Estimated Expenses per Year

Tuition, Incidentals, and Fees	$ 60.00 to $ 90.00
Board	$180.00 to $216.00
Rooms	$ 20.00 to $ 35.00
Fuel and Lights	$ 20.00 to $ 40.00
Laundry	$ 10.00 to $ 20.00
Text-books, etc.	$ 10.00 to $ 24.00
	$300.00 to $425.00

The minimum expenses for a year of thirty-six weeks to a student who boards himself are about $250.00; to one who boards in a club, about $275.00; to one who boards in a private family, about $300.00. These estimates do not include money for personal necessities or for recreation or cultural wants varying with the taste of the individual student.

Opportunities for Self Support

Industrious students, both men and women, can generally find opportunities in the village and vicinity, during semesters and vacations, to earn sufficient funds to meet in part their expenses. A large number aid themselves in this way every year. Most graduates of the college have been students of limited means who earned their way by manual labor, by teaching in the public schools, or by engaging in other occupations.

Free Scholarships

Milton College offers a free scholarship for one year to the graduate having the highest honors in his class in each high school in the State of Wisconsin that requires a four years' course of study. A free scholarship for one year may also be offered to the graduate having the highest honors in his class in such a high school in a neighboring state as the Board of Trustees may specially designate.

Free scholarships for one year are also offered to the students belonging to the Freshman, Sophomore, and Junior classes, each of whom shall have completed the year with the highest honors.

Certain endowed scholarships have been for a long time established, the beneficiaries of which are appointed by those named by the founders of the scholarships. Students are now the beneficiaries of such scholarships, designated as follows:

The Mary F. Bailey Scholarship.
The Jennie B. Morton Scholarship.
The Ezra Crandall Scholarship.
The Salem College Scholarship.

The Class of 1907 Scholarship.
The Rev. Oscar Babcock Scholarship.
The Rev. Edwin Shaw Scholarship.
The Albertus D. Crumb Scholarship.
The William H. and Mary E. Rich Scholarship.

Recently other endowment scholarships have been established, beneficiaries of which are appointed by the Trustees of the college.

All scholarships cover tuition fees, but not incidental fees, laboratory fees, board, room, or other expenses. Some of the scholarships are awarded only on certain conditions, which will be made known upon application.

Exceptional Tuition Fees

Half the usual tuition fee is charged to a student who is the son or daughter of a minister of religion or to a student who is preparing for the ministry in any religious denomination. Tuition fees are remitted entirely to sons or daughters of members of the faculty. Other fees are charged in these cases.

Buildings

Milton College has five buildings devoted to various purposes. The Main Building contains the offices, the chapel, and many recitation and lecture rooms. The Whitford Memorial Hall contains the Library and the lecture rooms and laboratories for physics, chemistry, and biology. In this building also are rooms for three of the literary societies. The other buildings are Goodrich Hall, the ladies' dormitory, containing a room for a ladies' literary society; the Auditorium Gymnasium, situated south of the buildings mentioned; and the President's Home on an eminence further south of the buildings. The campus fronts on College Street in the village of Milton.

The Library

The College Library consists of what were originally the Daniel Babcock Library, the Orophilian Library, the Iduna Library and the Philomathean Library. These Libraries have

been consolidated and are under the general management of the College Librarian, appointed by the Board of Trustees.

The Library now contains more than 11,000 books and 500 pamphlets newly classified and provided with a dictionary card catalogue. There are also several hundred other pamphlets and volumes of unbound magazines.

Books or magazines may be borrowed by students and residents of Milton subject to the usual library regulations. The library is open every college week-day from 8:00 A. M. to 12:00 P. M., and from 1:00 P. M. to 4:30 P. M., except during the chapel exercises. It is also open to the public on Tuesday and Thursday afternoons during the summer vacation. During the time college is in session the Library is also open on Monday and Wednesday evenings from seven till nine o'clock.

Apparatus

The institution is well equipped with apparatus for the student's use in laboratory work in the several courses described under "Departments of Instruction." The Chemical Laboratory in the south half of the second story of the Whitford Memorial Hall is well stocked with everything needful for complete work in General and Analytical Chemistry. The Physical Laboratory is in the south half of the first story. The apparatus of this department has been recently very largely increased and is now full and complete. The Biological department in the second story over the Library is provided with the best Bausch & Lomb microscopes.

Cabinets

The cabinets illustrative of Mineralogy, Geology, and Paleontology, embrace over four thousand specimens, and exhibit fairly the materials and the formations of the rocks found in the state. There has been presented to the college the W. P. Clarke collection of stone and copper instruments, some of which are rare types belonging to the different periods of the Prehistoric

Age, found in the immediate vicinity, elsewhere in our country, and in foreign lands. The college has obtained and preserved over eighteen hundred species of plants, which grow principally in this state. There have been gathered specimens of insects, fishes, birds, and mammals, typical of the groups of animals to which they belong; and a room with convenient cases has been set apart for their exhibition and use. Special students of the college share in the collection and classification of type forms in the several departments.

The Literary Societies

These are four in number, the Orophilian Lyceum, the Philomathean Society, the Iduna Lyceum, and the Miltonian Lyceum. The first two are for men and the third and fourth are for women. All of these organizations hold their sessions on Saturday evening during the college year. At the end of each year, during Commencement Week, the societies present public programs. Excellent work has been done by each of these societies during the past year. Every student is urged by the faculty to become a member of some one of these organizations, because exceptional opportunities are offered to those who desire to improve in writing, in public speaking, in debating, and in a knowledge of parliamentary practice.

Christian Associations

The first religious organization of the college was established in 1856 for both men and women and continued so until May, 1907. At that time it was reorganized as a Young Men's Christian Association and a Young Women's Christian Association, both affiliated with the state and national organizations. They are absolutely non-sectarian in their organization and management. They hold three prayer and conference meetings a week during the college year. One of these is held on Friday evening and is open to both men and women. The other two meetings are held on Tuesday evening, one for men and the other for women. The associations usually hold three socials during

the year, viz.: one at the beginning of the year, the second near the end of the first semester, and the third just before the spring recess. At these socials music is rendered, papers are read, and addresses are presented. An effort is also made to introduce new students to the older ones, and all are invited to join the associations. The moral and religious influence of these organizations on the student body and on the spirit and life of the institution cannot be overestimated.

Language Clubs

The clubs usually hold meetings once a month, and are devoted to the cultivation of English and linguistic studies.

The Athletic Association

This organization is composed of all students in the institution, and has charge of all the athletic games and contests connected with it. The contests arranged by the Association are subject to the rules governing athletics. Tennis in the autumn and spring, basket-ball in the Gymnasium during the winter, and baseball in the spring, are the principal games.

The Oratorical Association

This organization is composed of the members of the four Literary Societies, and the Faculty. The officers are president, vice-president, secretary, and treasurer, chosen annually, one from each of the societies. These officers together with the President of the college and the faculty of the English department constitute an executive committee which has general charge of the business of the Association. An oratorical contest is usually held shortly before the spring recess. Debates are also arranged between classes or with other colleges.

The Alumni Association

The Alumni Association of Milton College was organized in 1870, and its membership consists of those persons on whom the Institution has conferred honorary degrees, as well as those former students who have been graduated in all the courses of the

College and of the old Academy. To this number should be added six distinguished former students who have been elected honorary members of the Association. This organization holds its annual meeting during Commencement Week and at this time a banquet is held. The officers of the Alumni Association for this year are:

President—Dr. George W. Post, '80; First Vie-President—Prof. D. Nelson Inglis, '05; Second Vice-President—Rev. Herbert C. Van Horn, '98; Third Vice-President, Miss Pearl R. Gaarder, '19; Fourth Vice-President —Miss Harriett Oursler, '11; Secretary-Treasurer—L. Harrison North, '08.

The Milton Forward Movement

Early in the college year, 1913-14, a movement was initiated among the students to co-operate with the Trustees of the college in all efforts to build up the institution, to increase the number of students in attendance, to foster a spirit of amity and good-will between the students and the community, and in all ways to work for the prosperity of the institution. At its inception this was known as the "Forward Movement." It is significant of the character of the student body of the college.

Students' Meetings

All students' meetings and social gatherings are held subject to the approval of the President of the college, which must be obtained before any meeting is announced or any date set for the same. All social meetings are under the supervision of chaperons approved by the faculty. Class meetings are supervised by the class advisers. It is expected that evening meetings shall close at half past ten o'clock.

Milton College Review

The Milton College Review was formerly a monthly magazine, but is now a weekly newspaper, edited by students under the supervision of the faculty. The price of the paper is $1.50 a year. The cost of maintaining the paper is defrayed by advertisements, subscriptions, and a share of the student tax.

THE COLLEGE COURSE

Entrance Requirements

Every entering freshman must have pursued fifteen (15) units of preparatory work above the eighth grade in school. The term unit means the equivalent of five recitations a week for one year in one branch or closely allied branches of study. These should be as follows:

Mathematics (algebra 1, geometry 1)	2 units
English	3 "
History (ancient history 1, or medieval and modern history 1, or United States history 1, or English history 1)	1 "
Science (botany 1, or botany and physical geography 1, or chemistry 1, or physics 1, or physiology or physical geography 1, or zoology 1)	1 "
Language (Latin 4, or two languages each 2)	4 "
	11 units

Any four units from the following:

One language	1 or 2 units
English	1 or 2 "
History	1, 2, or 3 "
Civics and economics	1 "
Mathematics	1 "
Science	1, 2, or 3 "
Optional subjects	2 "

Students may be admitted with less work in language, but in that case they will be restricted in their choice of college studies. If fewer than two units of language are offered, more than the usual work will be required for their college course. See under "Restrictions and Special Requirements," page 26. A single unit of one language is not regarded as a complete element of a preparatory course. Students whose preparation is

incomplete may enter sub-freshman classes and thus complete their preparation. Such are classified as special students till their work is sufficient to warrant their classification in a regular college class.

Course of Study

A course of study in the college is pursued during four years and includes one hundred and twenty-eight (128) semester hours or credits; one hundred and twenty (120) of these are in class work, four (4) in physical training, and four (4) are covered by the graduating thesis. A semester-hour or college credit is the equivalent of one hour of recitation or lecture per week for one semester. Two hours of physical training or of laboratory work per week usually receive credit as one semester-hour. In the arrangement of his course of study a student should not plan to do less than fourteen (14) or more than seventeen (17) hours a week. No student will be permitted to register for more than eighteen (18) semester-hours in one semester except by permission of the faculty obtained in advance. See under "Restrictions and Special Requirements" page 26.

Grades

The work of students is graded on a scale of one hundred. The passing grade for a single study is seventy (70) per cent. For convenience grades between certain limits are designated by letters. Grade A means excellent work and represents a standing of 93 to 100 per cent; grade B, good work, 85 to 92 per cent; grade C, fair work, 77 to 84 per cent; grade D, poor work, 70 to 76 per cent. Grade D is the passing grade for credit.

But in addition to the requirement of one hundred and twenty-eight semester-hours for a course a candidate for graduation must secure at least one hundred and twenty-eight grade points. The grade points are awarded as follows:

For grade A, three points for each semester-hour.
For grade B, two points for each semester-hour.

For grade C, one point for each semester-hour.
For grade D, credit but no points.

The maximum number of points that can be secured in a course is 384; the minimum must be 128. It is evident that an average grade of C is required for graduation. A student who falls behind in the required number of points is ineligible for graduation. Hence while seventy per cent is the passing grade for a single study, the average passing grade for the whole course is seventy-seven (77) per cent.

Required Work

Of the one hundred and twenty semester-hours of class work, sixty-four (64) semester-hours must be taken in certain subjects that are required of all candidates for a degree. These are known as required subjects. The remaining fifty-six (56) semester-hours are elective. The required work is as follows:

English	6	semester-hours
Public Speaking	4	" "
Mathematics	6	" "
Language	16	" "
History	6	" "
Science	10	" "
Psychology and allied Studies*	16	" "
Total Required Work	64	" "

Those who wish to prepare for teaching must also take in the department of Education at least nine (9) semester-hours, of which at least two (2) must be practical work in teaching or teaching combined with class work in methods of teaching, usually their major subject. For an explanation of what is meant by a major subject see under "Elective Work," page 24.

*These are enumerated under the department of Philosophy. See under "Departments of Instruction," page 35.

Elective Work

By the statement that fifty-six semester-hours of the class work of the college course are elective is not meant that studies may be freely chosen without plan or system. The studies in college may be roughly divided into three groups as follows:

I. Language and Literature.
II. History, Social Science and Philosophy.
III. Natural Science and Mathematics.

At the beginning of the sophomore year, a candidate for a baccalaureate degree must, with the advice of the President, choose a major subject from one of the above groups and a minor subject from another department of the same group; provided, however, that a suitable language may be chosen as a minor subject in connection with any major and that mathematics may be chosen as a major subject in connection with a minor in either group I. or group II.

The work in a student's major subject must be consistently and consecutively pursued under the direction of the professor in charge of the department. In his major subject the student is required to do not less than sixteen (16) nor more than thirty-six (36) semester-hours exclusive of the thesis. Of these six (6) semester-hours should be completed before the junior year. The thesis is usually prepared in the senior year and must be a creditable piece of scholarly work in the major subject.

What may be counted as part of the major work is determined by the department in question, but certain studies cannot be counted; as German B, Latin A and B, English 1, and Mathematics 1 and 2. See "Departments of Instruction."

The minor subject is a related subject and one which when pursued is of benefit to the student in the consistent study of his major subject. It may be determined by the professor in charge of the major work. Usually ten (10) semester-hours should be taken in the minor subject.

Required subjects other than those excluded above may, at the discretion of the department, be counted as part of either the major or minor work.

Examples of subjects often chosen as major subjects are English, Latin, German, mathematics, biology, chemistry, and so forth. Rarely, by direction of a department, two subjects may be combined for major work; as, for example chemistry and physics.

Arrangement of Courses

The following table will serve to illustrate how the required and elective work may be combined in a course of study for four years:

Freshman year		
	English 3 hours per week	6 s.-h.
	Mathematics 3 hours per week	6 s.-h.
	Two languages each 4 hours per w'k	16 s.-h.
	Physical training 2 hours per week	2 s.-h.
		30
Sophomore Year		
	History 3 hours per week	6 s.-h.
	Psychology 3 hours per week	6 s.-h.
	Science usually 10 hours a week	10 s.-h.
	Physical training 2 hours per week	2 s.-h.
	Elective	8 s.-h.
		32
Junior Year		
	Logic and philosophy 3 hours per w'k	6 s.-h.
	*Public speaking 2 hours per week	4 s.-h.
	Elective 11 hours per week	22 s.-h.
		32

*Public speaking may be taken in the sophomore year in addition to the other work; this is advised if the student can arrange time for it then.

Senior Year

Ethics 2 hours per week	4 s.-h.
*History of Education	4 s.-h.
*Pedagogy, including practical work	5 s.-h.
Elective class work	17 s.-h.
Thesis, given credit always as	4 s.-h.
	34

The foregoing table is intended to serve as a practical guide to the student in arranging his work. It will be noted that no elective work is assigned to the freshman year. However, a student making his major in science may well take his required science then and defer one of his languages till the sophomore year. But the required work in language should all be completed, if possible, before the junior year. It should never be postponed till the senior year. Those who enter with insufficient preparation in language should exercise especial care in the arrangement of their work. Such must heed advice given to them when registering for their studies.

Restrictions and Special Requirements

After a student's studies are registered at the office no change in these will be allowed without permission of the President of the college.

Permission to register for more than eighteen semester-hours in the same semester will not be granted in any year to a student whose average standing during the preceding year has not reached ninety per cent.

A student who offers only two units of language for entrance must take twenty-six (26) semester-hours of language in his college course. One who offers no language for entrance

*Required of those who wish to teach. Other students take twenty-six (26) semester hours of elective subjects instead of seventeen (17).

Note—In explanation of enumeration of credit for science and physical training see under "Course of Study" page 22.

must take thirty-six (36) semester-hours of language in college, ten (10) of which will be without credit; that is, the course of such a student will contain ten additional semester-hours, over and above the usual 128.

Any student who desires to pursue a study outside of a class and receive credit therefor must first obtain special permission from the faculty. Such work must be carried on under the supervision of the professor in charge of the department in which the study is pursued. The fee for such supervision is noted in the table of fees (See page 12) and must be paid with the other fees at the office.

Absences

Absence from any class exercise, whether recitation, lecture, test, or final examination, shall constitute a "cut."

If no cuts are taken in a course and the student's work is of passing grade, he will be credited with the number of semester-hours specified for that course and as many tenths of an hour in addition. Thus a five-hour course with perfect attendance would give the student 5.5 hours; a three hour course, 3.3 hours, and so with others.

Each cut automatically deducts one tenth of an hour from the total credit for perfect attendance.

No cuts shall be canceled or excused by a teacher. All omitted work shall be made up to the satisfaction of the teacher and all required tests or examinations taken at his convenience.

A limit to cutting in any particular course may be set by the teacher with the approval of the faculty; and, if a student cuts beyond that limit, the course may be canceled by vote of the faculty.

In cases of absence due to long continued illness or in other exceptional cases, credit lost may be restored by vote of the faculty, not to exceed the number of semester-hours specified for the course.

At the discretion of any teacher three cases of tardiness may be counted as a cut.

Absence on the first day of the semester, the last day before a recess, or the first day after a recess shall be counted as two cuts.

As will be seen, deficiencies due to excessive cutting can only be made up by faithful attendance or by additional hours of subsequent work.

No credit for any course will be given for less than one semester-hour.

Attendance at chapel is required with an allowance of ten cuts a semester. Each cut in excess of ten automatically adds one-tenth of a semester-hour to the requirements of the student's college course. Individual cases of non-attendance at chapel on religious or other grounds will be dealt with separately by the faculty.

Examinations

College seniors whose class standings are above ninety per cent during the second semester may be excused from taking final examinations in June.

A student whose final standing in any study is sixty-five per cent or more, but below the passing grade, is conditioned in that study and may at an appointed time within a year take an examination to remove the condition.

For every special final examination—that is, for every final examination held for the benefit of a single student—a fee of one dollar is charged. See table of Fees.

Degrees

All graduates from Milton College receive the degree of Bachelor of Arts.

Orations

Each student in the sophomore and junior year is required to produce an oration. These orations must be finished and handed to the Professor of Public Speaking before the Christmas recess. They must be delivered either in the annual contest of the Oratorical Association of the college, or in one of the preliminary contests, or in some public exercise arranged by the faculty and held on a date earlier than that of the annual contest.

Theses

Theses must be typewritten and furnished for the college library by the Friday before Commencement. Diplomas will be withheld from students that fail to comply with this requirement.

Teachers' Certificates

According to recent legislation all applications by college graduates for life certificates to teach in the state of Wisconsin are to be considered solely upon their merits. Any graduate desiring to obtain such a certificate must file an application setting forth the studies he has pursued, duly certified by the college from which he is graduated. He may then be required to take an examination in certain subjects. If the application is satisfactory or if the examination is duly passed, a certificate will be granted after two years' successful experience in teaching and the maintenance of a good moral character.

For specially required studies see under "Required work," page 23. Also see note to table under "Arrangement of courses," page 26.

DEPARTMENTS OF INSTRUCTION

English

1 Freshman English.

Lectures on English composition. Exercises in paragraph and theme writing, directed toward the formation of an effective prose style. Text-books: Newcomer's *Elements of Rhetoric* and Lewis's *Specimens of the Forms of Discourse.* Required of all college students in the Freshman year. *Three hours a week throughout the year.*

Note—The work in this course consists of the following parts:

a) Class exercises or lectures three times a week.

b) Short themes based on exercises in Lewis's *Specimens of the Forms of Discourse* twice a week.

c) Weekly translations from a foreign language.

d) Longer bi-weekly themes based on the required readings.

e) Required readings: (1) A book of general reading and a standard novel, (2) Winchester's *Principles of Literary Criticism*, (3) Matthew Arnold's *Essays in Criticism*, selected.

2 Sophomore Composition.

Narrative composition. During the recitation hour the class pursues the study of the American short story. Compositions are required weekly or fortnightly. Elective. *Two hours a week throughout the year.*

3 a Elementary Anglo-Saxon.*

An elementary course with a view to the mastery of the grammar and the reading of normalized West Saxon prose, especial attention being given to the derivation of words. Text-book, Cook's *First Book in Old English. Two hours a week in the first semester.*

*Courses 3 to 9 have special reference to the history and development of the English language. Course 3a is required in the sophomore year of those choosing English as a major. It is advised that English students pursue consecutively either courses 3a, 3b, 4, 5, and 6 or 3a, 7, 8, and 9. The most of these are two-hour classes and they may easily be pursued in connection with other work.

3 b Anglo-Saxon Prose.

Further study of Anglo-Saxon, especially of difficult forms and syntax. Extensive reading of prose selections. Text-book, Bright's *Anglo-Saxon Reader.* Continuation of course 3a. *Two hours a week in the second semester.*

4 Anglo-Saxon Poetry.

Poetical selections in Cook and Bright, supplemented by other texts according to the ability of the class. *Two hours a week throughout the year.*

5 Anglo-Saxon Dialects.

A study of the Northumbrian, Mercian, and Kentish dialects, with many of the most ancient remains of heroic poetry. Text-books: Kluge's *Angelsächsisches Lesebuch*, Sievers' *Angelsächsische Grammatik*, and Sweet's *Student's Dictionary of Anglo-Saxon*, with references to Kluge's *Geschichte der englischen Sprache.* Open to senior students in Anglo-Saxon. *Three hours a week in the first semester.*

6 Beowulf.

Study of the Anglo-Saxon text with reference to early Germanic life and customs. Text-book, Wyatt's *Beowulf*, with references to other works. Open to senior students in Anglo-Saxon. *Three hours a week in either semester, as classes may be arranged.*

7 Early Middle English.

A. D. 1066-1300. Homilies, *Later Saxon Chronicle*, and prose selections in the Midland dialect; *The Ormulum, Havelok the Dane*, and poetical selections in the Midland dialect; *The Ancren Riwle* and prose selections in the Southern dialect; poetical selections in the Southern dialect, Layamon's *Brut, The Owl and the Nightingale* and *King Horn.* The Midland dialect is made the basis of grammatical instruction, and especial attention is given to Danish and Norman influences. Text-book: Emerson's *Middle English Reader*, with supplementary texts. Open to those who have taken course 3a. *Two hours a week in the second semester.*

8 Later Middle English.

A. D. 1298-1400. Sir John Mandeville, Wiclif, John of Trevisa, Dan Michel of Northgate *(Ayenbite of Inwyt)*, Robert of Gloucester, *Handlying Synne*, Lawrence Minot, *Cursor Mundi*, Barbour *(The Bruce)*, Langland, Gower, and Chaucer, with a closer study of dialects, including the Northern dialect. Textbooks as in course 7. Open to those who have taken courses 3a and 7. *Two hours a week in the first semester.*

9 Transition and Tudor English.

A. D. 1400-1579. Occleve, Lydgate, James I. of Scotland, Ballads, Dunbar, Douglas, Mallory, More, Tyndale, Ascham, Berners, etc., to Spenser. Text-book, Skeat's *Specimens of English Literature*, 1349-1579. Open to those who have taken course 3a. *Two hours a week in one semester.*

10 College Literature.

A general survey of English literature Textbooks: *Century Readings for a course in English Literature*, edited by J. W. Cunliffe, J. F. A. Pyre, and Karl Young, and *Century Outlines for a course in English Literature*, compiled by F. A. Pyre, T. H. Dickinson, and Karl Young. *Three hours a week throughout the year.*

11 Shakespeare.

The following plays are studied: First Semester: *Love's Labour's Lost, Henry V., The Tempest, Midsummer Night's Dream, Romeo and Juliet, The Merchant of Venice, As You Like It.* Second Semester: *Twelfth Night, Hamlet, Othello, Macbeth. Antony and Cleopatra, Coriolanus, A Winter's Tale.* Text-book, *Shakespeare's Principal Plays*, edited by Brooke, Cunliffe, and MacCracken. *Three hours a week throughout the year.*

12 a Browning.

A careful study of the poet's life, followed by the reading and interpretation of the most important of his poetical works. Textbook, The Globe Edition of Browning's works. *Two hours a week in the first semester.*

12 b **Tennyson.**

The study of Tennyson's development as a poet. Nearly all the poems are read in class. Text-book, The Globe Edition of Tennyson. *Two hours a week in the second semester.*

13 a **The Romantic Movement.**

A study of the movement in general, followed by particular study of the poetical works of Coleridge, Wordsworth, Byron, Shelley, and Keats. Text-book, Page's *British Poets of the Nineteenth Century. Two hours a week in the first semester.*

13 b **The Victorian Era.**

A continuation of 13 a. Study of the poetical works of Landor, Browning, Tennyson, Rossetti, Arnold, Morris, and Swinburne. Text-book the same as for 13 a. *Two hours a week in the second semester.*

14 **Ballads and Folklore.**

English and Scottish popular ballads. Origin of ballads in relation to origins of art. Text-book, *English and Scottish Popular Ballads,* edited by Sargent and Kittredge, from the collection by F. J. Child. *Two hours a week in the first semester.*

15 **Modern Drama.**

A study of the drama of the nineteenth and twentieth centuries in relation to the work of Ibsen. *Two hours a week in one semester.*

16 **English Novel.**

An historical survey of the whole period of the English novel. Lectures, class exercises, and occasional papers. *Two hours a week in one semester.*

Note—Courses 2 and 10 to 16 are not given every year. In 1920-1921 courses 10, 11, and 13 will probably be given.

History

1 **Medieval History.**

Brief preliminary survey of ancient European history. Study of Medieval Europe from the barbarian invasions to the 16th

century. Lectures, recitations, and written tests. Text-book, Adams' *European History*, supplemented by other works. Required in the sophomore year. *Three hours a week in the first semester.*

2 Modern History.

The history of Europe from the Reformation to the present time. Lectures, oral and written tests. Adams' *European History* and supplementary texts. Required in the sophomore year. *Three hours a week in the second semester.*

3 a American History.

Covering the time of discovery, settlement, colonial development, the French Wars and the Revolutionary struggle. *Three hours a week in the first semester.*

3 b American History.

The formation and development of the nation, beginning with the critical time of 1783 and extending through the time of reconstruction after the Civil War. *Three hours a week in the second semester.*

4 a English History.

The history of England from the earliest times to the Reformation. Text-book, Gardiner's *A Student's History of England.* Supplementary reading in other texts and in such special accounts as Cunningham's *The Growth of English Industry and Commerce* and Traill's *Social England. Three hours a week in the first semester.*

4 b English History.

The history of England from the Reformation to the present time Text and assigned readings as in 4 a. *Three hours a week in the second semester.*

5 a Recent Modern History.

From 1815 to 1870. *Three hours a week in the first semester.*

5 b Recent Modern History.

From 1870 to the Present. *Three hours a week in the second semester.*

Political and Economic Science

1 Advanced Civics.

Text-book, Beard's *American Government and Politics* with references to Wilson's *The State*, Bryce's *American Commonwealth*, and other works. *Three hours a week in one semester.*

2 Economics.

Text-book, Bullock's *Introduction to the Study of Economics*, with references to Mill's *Principles of Political Economy* and other standard works. *Three hours a week in one semester.*

Philosophy

1 Descriptive Psychology.

Lectures. Text-book, Angell's *Psychology*, with references to Ladd, James, and other authors. Required in the sophomore year. *Three hours a week in the first semester.*

2 Experimental Psychology.

Lecture. Text-book, Seashore's *Elementary Experiments in Psychology*. Required in the sophomore year. *Three hours a week in the second semester.*

3 Logic.

Lectures. Text-book, Creighton's *Introductory Logic*, with references to Mill, Bosanquet, and other authors. Required in the junior year. *Three hours a week in the first semester.*

4 Introduction to Philosophy.

Lectures and discussion. Text-book, Paulsen's *Introduction to Philosophy*. Required in the junior year. *Three hours a week in the second semester.*

5 Ethics.

Lectures. Text-book, Dewey and Tuft's *Ethics* with references to bibliography. Required in the senior year. *Two hours a week throughout the year.*

6 **History of Philosophy.**

Lectures. Text-book, Cushman's *A Beginner's History of Philosophy* with assigned readings. *Two hours a week throughout the year.*

Education

1 **History of Education.**

Lectures. Monroe's *Text-book*, with references to extensive bibliography. *Two hours a week throughout the year.*

2 **Educational Psychology.**

Lectures. Text-book, Lange's *Apperception* with references to bibliography. *Three hours a week in one semester.*

3 **Pedagogy.**

Lectures on the principles of teaching. Extensive bibliography. Practical work in teaching. *Three hours a week in the second semester, usually in the senior year.*

Note—Course 1 and either course 2 or course 3 are required in the case of those who wish to teach in high schools.

Latin

B **Beginners' Latin.**

For students without previous work in Latin. The elements of Latin and Caesar's *Gallic War,* Books I-III or selected portions from Books I to V. *Five hours a week throughout the year.*

A **Cicero and Virgil.**

Six orations of Cicero and six books of Virgil's *Æneid.* Prose composition. *Five hours a week throughout the year.*

1 **Livy or Cicero.**

Selections from Livy, Books I. and II., or XXI. and XXII., or else either Cicero's Essay on *Old Age* or on *Friendship,* supplemented by Virgil's Pastoral Poems. Exercises in writing Latin once a week. *Four hours a week in the first semester.*

2 **Horace.**

Selections from the Odes, Epodes, and Epistles. *Four hours a week in the second semester.*

3 Tacitus.

The *Treatise on Germany* and the *Life of Agricola. Three hours a week in the first semester.*

4 Roman Satire.

Selections from Horace and Juvenal. *Three hours a week in the second semester.*

5 Latin Composition.

Open to students who have completed courses 1 and 2. *One hour a week throughout the year.*

6 Cicero's Letters.

About fifty letters will be read with emphasis on the character and age of Cicero. The course is designed to throw light on the causes of the fall of the Roman Republic. *Three hours a week in the first semester.*

7 Roman Drama.

Selected plays of Plautus and Terence. *Three hours a week in the second semester.*

8 Advanced Latin Composition.

Open to students who have completed courses 1 to 5. *One hour a week throughout the year.*

9 Rapid Reading Course.

Either a. Curtius, b. Sallust, c. Caesar, Book VII, d. Nepos, e. Ovid, or, f. Miscellaneous selections. *One hour a week throughout the year.*

10 Lucretius.

Selections from the poem on the *Nature of Things. Two hours a week in one semester.*

11 Catullus.

Selections from the Poems. *Two hours a week in one semester.*

12 Pliny the Younger.

Selections from the Letters. *Two hours a week in one semester.*

13 **Suetonius.**

The Life of Augustus. A course designed to throw light on the founding of the Roman Empire. *Three hours a week in one semester.*

14 **Tacitus.**

The Life and times of the Emperor Nero. The later books of the *Annals* will be the text. *Three hours a week in one semester.*

15 **The Teaching of Latin.**

A review of the four years of High-School Latin, comparison of text-books, and practice teaching, with a rapid survey of Latin literature. Supplementary reading is required. A notebook must be kept. *Two hours a week throughout the year.*

16 **Special Subjects.**

a. Roman Customs, b. Roman Religion, c. Roman Law, d. Roman Political Institutions. *Two hours a week in one semester.*

17 **Late Latin.**

Latin hymns, with portions of the New Testament read in class at sight. *Two hours a week in one semester.*

Note—Courses 3 to 17 are not all given every year. In 1920-1921 courses 6 and 10 and perhaps others will be offered.

Greek

B Beginners' Greek.

The elements of Greek and Xenophon's *Anabasis,* Books I and II. *Four hours a week throughout the year.*

A Xenophon and Homer.

The *Anabasis,* Books III and IV, and the *Iliad,* Books I-III, or the *Odyssey,* Books I-IV. Greek Composition accompanies the Anabasis. *Four hours a week throughout the year.*

1 **Homer and Lysias.**

Homer's *Odyssey,* Books V-XII, or the *Iliad,* Books IV-VI, and selections, in the first semester; Lysias, with gram-

mar and composition, and the *Philippics* of Demosthenes in the second semester. *Five hours a week.*

2 Advanced Greek.

The Alcestis of Euripides, selections from Herodotus and Thucydides, and Jebb's *Primer of Greek Literature*, in the first semester. Plato's *Apology* and *Crito* and Thucydides, in the second semester. *Three hours a week.*

3 Dramatic Poets.

Two plays of Æschylus, Sophocles, or Euripides and the study of meters in the first semester. Plays of Aristophanes with discussion of the Attic Drama and Theatre in the second semester. *Three hours a week.*

4 Poets and Orators.

Greek Lyric Poets in the first semester: Greek Orators in the second semester. *Three hours a week.*

5 Plato.

Selected Dialogues. *Twice a week throughout the year.*

French

1 First Year French.

Work in grammar, reading, conversation, and phonetics, based upon Fraser and Squair's *French Grammar*. Additional texts read during the year. *Four hours a week throughout the year.*

2 Second Year French.

Translation and criticism of standard French authors, following the development of French literature from the seventeenth century through the nineteenth century. Composition one hour a week. *Four hours a week throughout the year.*

3 Composition and Conversation.

For students who wish to do advanced work in composition, conducted wholly in French. *Two hours a week throughout the year.*

4 General Survey.

A brief survey of the whole field of French literature, showing main divisions and placing representative authors. Lectures and collateral reading. *Three hours a week throughout the year.*

5 Nineteenth Century Drama.

Study and criticism of representative dramatists, such as Hugo, Dumas-Fils, Angier, Scribe, Rostand, and others. Lectures and assigned reading. *Three hours a week in the first semester.*

6 The Novel.

A study of the development of the novel, beginning with the Pastoral Romance and extending through the 19th century. Rapid reading of representative authors, reports, and assigned reading. *Three hours a week in the second semester.*

7 Sight Reading.

A course in rapid sight reading, taken only in connection with some other course. *Two hours a week. One credit.*

8 Methods of Teaching.

A course in preparation for the teaching of French. *Two hours a week in one semester.*

Spanish

1 First Year Spanish.

De Vitis' *Spanish Grammar.* Translation of selections from *Gil Blas. Four hours a week throughout the year.*

2 Second Year Spanish.

Translation of selections from the *Don Quijote* of Cervantes and from more modern writers. *Two hours a week throughout the year.*

3 Commercial Spanish.

For students who wish practical work in business Spanish, writing letters, advertisements, making out bills, etc. *Two hours a week throughout the year.*

German

B Beginners' German.

For students without previous work in German. *Five hours a week throughout the year.*

1 Freshman German.

Modern prose, narrative and dramatic, and a drama by Lessing or Schiller. Review of the grammar and syntax. Written and oral exercises. Open to those who have had German B or who offer two entrance units of German. *Four hours a week throughout the year.*

2 Classical and Modern Writers.

Selections from nineteenth century novelists and at least two important dramas by Goethe or Schiller. Written exercises. For students who have had German 1. *Three hours a week throughout the year.*

3 German Composition and Conversation.

This course is especially intended for those who look forward to teaching. *Two hours a week throughout the year.*

4 Sight Reading.

Rapid translation of literary prose and articles in current magazines and newspapers. *Two hours a week (one hour credit) throughout the year.*

5 Modern German Dramatists.

Selected dramas from Grillparzer, Hebbel, Ludwig, Hauptmann and Sudermann, or several dramas of one of these authors, with critical study of his life and works. *Two hours a week in the first semester.*

6. Modern German Novelists.

Readings from Scheffel, Freytag, Keller, Sudermann and Frensson. Representative selections will be read in class and others will be assigned for private reading. *Two hours a week in the second semester.*

7 Goethe.

An introduction to the works of Goethe chosen from the different periods of his literary activity, including Faust. *Two or three hours in the first semester.*

8 German Epic, Ballad, and Lyric Poetry.

The course gives a hasty survey of German poetry from the Middle Ages to the present time, including parts of the *Nibelungenlied*, Court Epics, and characteristic *Minnelieder*, in Modern German translations, and selections from leading poets of the eighteenth and nineteenth centuries. Reports on assigned reading. *Two hours a week in the second semester.*

9 Special Courses.

Other courses may be arranged, as the critical study of one author, as Goethe, or of one period, as the Romantic period, or a general survey of the history of German literature.

10 The Teaching of German.

A course in methods of teaching German, for those intending to become teachers. *Two hours a week in one semester.*

Mathematics

A Solid Geometry.

Ford and Ammerman's Solid Geometry. For those who have not had solid geometry in the high school. *Three hours a week in either semester.*

1 Algebra.

Brenke's *Advanced Algebra.* Review of elementary algebra, properties of quadratic equations with emphasis on their graphical interpretations, binomial theorem, variation, progressions, permutations and combinations, and general theory of equations. Required in the freshman year. *Three hours a week in the first semester.*

2 Plane Trigonometry.

Passano's *Plane and Spherical Trigonometry.* Theory of trigonometric functions, solutions of triangles, elements of

logarithms, and complex numbers. Required in the freshman year. *Three hours a week in the second semester.*

3-4 Analytic Geometry.

Dowling and Turneaure's *Analytic Geometry.* Systems of co-ordinates, loci and their equations, equations and their loci, loci of first order, of second order, and of higher orders, analytic geometry of space. Open to those who have taken courses 1 and 2. *Three hours a week throughout the year.*

5-6 Calculus.

Phillips' *Differential and Integral Calculus.* Theory of limits, differentiation, integration, areas, lengths of arcs, maxima and minima, successive integration, curvature, evolutes, series, expansion of functions. Open to those who have had course 3-4. *Three or four hours a week throughout the year.*

7 Differential Equations.

An elementary treatment of differential equations with applications to physics and mechanics. Open to those who have taken courses 5 and 6. *Three hours a week in the first semester.*

8 Surveying

Recitations and problems in the determination of heights, distances, and areas. Field practice with the chain, the tape, the transit, and the level. Open to those who have taken course 2. *Two hours a week in either semester.*

9 Solid Analytic Geometry.

Snyder and Sisam's text. Determinants. Lines, planes, and surfaces. Properties of quadric surfaces. Homogeneous and tetrahedral co-ordinates. Required of those who take their major in mathematics. *Three hours a week in the first semester.*

10 The Teaching of Mathematics.

A course for those who will teach in high schools. A review of high school mathematics and comparison of text-books. Practical work in teaching. *Two hours a week in one semester.*

Astronomy

1 Introduction to Astronomy.

Moulton's text. A descriptive course designed to give the student familiarity with the solar system, the principal constellations, and the brighter stars. The results of modern investigations are discussed. Open to students beyond the freshman year. *Three hours a week in the second semester.*

Drawing

1 Mechanical Drawing.

Phillips and Orth's *Mechanical Drawing.* Free-hand drawing in perspective and in orthographic projection, use of instruments, lettering, working drawings, tracing, blue printing. Open to freshmen. *Three hours a week throughout the year.*

Physics

B Elementary Physics.

Text-books: Millikan and Gale's *First Course in Physics,* Millikan and Gale's *A Laboratory Course in Physics.* Open for credit to freshmen who have not offered physics for entrance. *Five hours a week throughout the year.*

1 General Physics.

Kimball's *College Physics.* Lectures and recitations, three hours a week. Laboratory practice, four hours a week. Open to those who have taken Mathematics 1 and 2. *Full study throughout the year.*

2 Heat and Light.

Advanced course of lectures. Open to those who have taken course 1. *Three hours a week in the first semester.*

3 Electricity and Magnetism.

Advanced course of lectures. Open to those who have taken course 1. *Three hours a week in the second semester.*

Chemistry

1 General Chemistry.

The subjects covered in this course will include a careful

study of the occurrence and properties of the elements, together with laws governing all chemical reactions. Prerequisite: Elementary physics; high school chemistry is recommended. Lectures or recitations two hours per week with three double laboratory periods per week throughout the year. *Five hours credit in each semester.*

2 Qualitative Analysis.

The detailed separation of the metals, non-metals and acid radicals. The student is required to apply the theory of course 1, and explain the reason for each reaction. Solubility product, laws of concentration, hydrolysis, amphoteric hydroxides, etc., are studied and applications made in the separations. Required of major students. Prerequisite: course 1. Two lectures or recitations with seven hours of laboratory work per week throughout the first semester. *Five hours credit in the first semester.*

3 Quantitative Analysis.

The work embraces the principal methods of gravimetric, volumetric, and electro-chemical analysis, and the use of reference works and chemical journals. This course gives quantitative application of the laws studied qualitatively in course 2. Required of major students. Prerequisite: courses 1 and 2. Two lectures or recitations with seven hours of laboratory work per week throughout the second semester. *Five hours credit in the second semester.*

4 Organic Chemistry.

A study of the methods of preparation and the properties of the more important organic compounds. Special stress is laid upon the theories underlying the subject and the proofs of the constitution of most of the substances studied. Required of major students. Prerequisite: course 1. Two lectures or recitations and three hours of laboratory work per week throughout the year. *Three hours credit in each semester.*

Biology

1 General Biology.

A course in Animal Biology with especial attention given to the Invertebrates in the first semester and to the Vertebrates in the second semester. The Lectures cover the principal facts of animal structure and development. They are illustrated by museum specimens and wall charts, in addition to the detailed laboratory study of typical representatives of the main branches of the animal kingdom. Occasional field excursions. Open to Freshmen and Sophomores. *Two hours each day. Five times a week throughout the year.*

2 Physiology.

Anatomy, Physiology, and Hygiene. Special attention is given to the functions of the mechanisms of the human body. Open to Sophomores and Juniors. *Five times a week in the first semester.*

3 Zoology.

Laboratory work and field study supplementary to Biology 1, but more advanced. Summary Thesis. Prerequisite, Biology 1. *Two hours each day. Three times a week in the second semester.*

4 Botany.

Laboratory and recitation. A course including plant physiology and the classification of the common spring flowers of the neighborhood. *Two hours each day. Three times a week in the second semester.*

5 Special Research.

Opportunity offered for work in a limited field. Credit to be arranged.

6 Heredity and Evolution.

The main facts and theories of heredity and its mechanism, with emphasis on the phases pertaining to human welfare. Lectures, recitations, and reference readings. *Twice a week in the second semester.*

7 **Histology.**

Practical work combining a microscopical study of tissues of animals and the technic involved. Opportunity is afforded for the making of permanent preparations. Credit to be arranged. Prerequisite, Biology 1.

Geology

1 **Physiography and Dynamic Geology.**

Lectures, review papers, and discussions. Open to juniors. *Five times a week in the first semester.*

2 **Paleontology.**

Class work, field studies, and a thesis. Open to juniors. *Five times a week in the second semester.*

English Bible

1 **Old Testament.**

Lectures and a study of the text of the American Standard Revision. Analysis of the Old Testament with introduction. Elective. *Three hours a week throughout the year.*

2 **New Testament.**

Lectures and a study of the text of the American Standard Revision. Analysis of the New Testament with introduction. Elective. *Three hours a week throughout the year.*

Note:—In 1920-1921, course 1 will be given.

Public Speaking

1 **Public Speaking.**

Text-book, Phillip's Effective Speaking. Should be taken during the sophomore year if possible, certainly by the junior year. May be taken in the freshman year by well prepared students. *Two hours a week throughout the year.*

2. **Advanced Public Speaking.**

Open to those who have had Public Speaking 1. No text-

book required. This is a course in debating and the study of speeches by famous orators. *Two hours a week throughout the year.*

3 **Course in Dramatic Reading.**

Study of dramatic selections from Shakespeare and other standard authors. *Two hours a week throughout the year.*

ATHLETICS AND PHYSICAL TRAINING

Both Athletics and Physical Training are in charge of a Physical Director and a Medical Adviser. All students, at the opening of the year, must submit to a physical examination by competent physicians. Regular work in gymnasium classes is carried on throughout the year. See under "Required Work," page 25.

MUSIC

Work in music has always been a prominent element in Milton College. It has been carried on under the title, "School of Music," and all courses when completed are certified under that name.

The principal courses in music are the following: Voice Culture, Harmony, Pipe Organ, Pianoforte, Violin, Viola, and Violoncello.

Two years' study of Harmony, one year of the Theory of Music, and a course in the History of Music are required in the Pianoforte, Voice Culture, and stringed instrument courses; and at least the first two grades of one of the instrumental courses is a prerequisite of the completion of the Harmony and Voice Culture courses.

Pupils having completed any one of the foregoing courses and having a full high school course or its equivalent are entitled to a certificate of graduation in the course pursued.

A detailed statement of the work in music is given in a bulletin, issued usually in the summer, a copy of which may be obtained at the college office.

To aid students in the instrumental courses, classes in sight playing and for ensemble work are organized for practice in the playing of duos, trios, and work for the pianoforte and stringed instruments; also recitals are given from time to time as an essential means of training for students in these courses.

These adjuncts to musical training are free, and students in instrumental courses are expected to attend them. Those who are prepared to take allotted parts may receive the benefit of the weekly practice of the college orchestra.

The Chapel Choir, Choral Union, Glee Club, and Treble Clef afford an opportunity for students to obtain practice in chorus singing.

Fees

The tuition in the School of Music is estimated as per half-semester, or quarter, of nine weeks, half-hour lessons.

Pipe Organ, one lesson a week	$13.50
Pianoforte, two lessons a week	16.00
The same, one lesson a week	9.00
Kindergarten, two lessons a week, in classes	5.00
Stringed Instruments, two lessons a week	16.00
The same, one lesson a week	9.00
Voice Culture, two half-hour lessons a week	16.00
The same, one half-hour lesson a week	9.00
Elementary Vocal Music, in classes	2.00
Theory of Music	1.00
Harmony, private	9.00
Harmony, in class of three	5.50

Tuition is to be settled in advance at the beginning of each quarter. No reduction will be made to pupils who miss their lessons, except in the case of prolonged absence on account of sickness or other unavoidable circumstances.

CATALOGUE OF STUDENTS

COLLEGE

Senior Class

Verna Susan Foster	Olivet, Mich.
John Edward Holmes	Milton
George Olaf Johnson	Port Wing
Estella Tuttle Pearce	Belleville
Howell Sheppard Randolph	Milton
Helen Shaw	Yonkers, N. Y.
Stephana Shaw	Plainfield, N. J.
Eloise Marguerite Thomas	Albion
Helen Marguerite Thorngate	Exeland
Vesta Mae Thorngate	North Loup, Nebr.

—10

Junior Class

Vera Evelyn Coon	Milton Junction
Henry Arthur Curtis	Milton
Goldie Estelle Davis	Milton
Myrtelle Ellis	Dodge Center, Minn.
Floyd Fay Ferrill	Farina, Ill.
Ruby Elizabeth Fetherston	Milton
Elizabeth Mary Fletcher	Brooklyn
Gertrude Gessler	Bangor
Noble Curtis Lippincott	Milton
Dorothy Geraldine Maxson	Milton
Neal Dow Mills	Battle Creek, Mich.
Mildred Ream Palmiter	Albion
Mary Madeline Pepper	Evansville
Vincent Raukuce	Wilna, Poland
Bertha Sybil Reid	Exeland
Ruth Zinn Schlagenhauf	Farina, Ill.
Ruth Almira Schrader	Milton Junction
James Irish Stillman	Milton
Edith Lyle Stockman	Milton Junction
Clifford Clarke Thomas	Milton
Myron Oliver Warner	Milton Junction

Dorothy Kent Wheeler	Boulder, Colo.
Hazel Irene White	North Loup, Nebr.

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Sophomore Class

Mabel Florence Arbuthnot	Janesville
Ruth Maribel Babcock	Milton
Henry Chase Black	North Loup, Nebr.
Jessie Sarah Rebecca Burnett	Milton
Theodore Morrison Chang	Shanghai, China
Tacy Mildred Coon	Ashaway, R. I.
Howard Victor Fox	Milton
Etta Martha Hodge	Dodge Center, Minn.
Ralph Raymond Holliday	Milton
Joe Ewing Johnson	Milton
Herbert Paul Kakuske	Janesville
Alice Lenore Kumlien	Milton
Leo Lu Lanphere	Milton
Myrtle Emma Lewis	Dodge Center, Minn.
Philip Butler Marquart	Milton Junction
Ina Adelle Maxson	Battle Creek, Mich.
Chester Davis Newman	Milton
Carroll Frank Oakley	Milton
Jessie Violet Post	Milton
Albert Gerald Sayre	Milton
Iva Marie Schrader	Milton Junction
James K. Shiba	Okaymaken, Japan
Harold Eugene Smith	Janesville, R. F. D. 3
Rex Presley White	North Loup, Nebr.

—24

Freshman Class

Albert Henry Babcock	North Loup, Nebr.
Audree Clair Babcock	Garwin, Iowa
Edna Mabel Babcock	Battle Creek, Mich.
George Stillman Babcock	Milton
Ardis Lorena Bennett	Milton
Laura E. Bond	Farina, Ill.
Rex Porter Bond	Garwin, Iowa
Ruth Evelyn Burdick	Milton
William Stillman Burdick	Milton
Mildred Mary Campbell	Milton
Merlin J. Chadsey	Milton
Gladys Evangeline Coon	Ashaway, R. I.

Edith Catherine Crosley	Farina, Ill.
Howard McKinley Emerson	Milton
Dean Stanley Fox	Milton
Hazel Irene Greatsinger	Evansville
Amie Catharine Greene	Milton
Paul Hurley Hemphill	North Loup, Nebr.
Esther Vivian Hill	North Loup, Nebr.
Meribah Winifred Ingham	Fort Wayne, Ind.
Morton Frederick Johnson	Milton
Earl A. Korth	Clear Water Lake
Clara Moreland Lippincott	Battle Creek, Mich.
Truman Glade Lippincott	Milton
Arthur Maxson Mills	Milton
Elma Corinne Mills	Battle Creek, Mich.
Doris Randolph	Milton
Esther Amelia Rogers	Batle Creek, Mich.
Jessie Byrle Sayre	North Loup, Nebr.
Catharine Shaw	Yonkers, N. Y.
Aletha Ruth Thorngate	North Loup, Nebr.
Chloe Alberta Van Horn	Milton
Milton Ellis Whaley	Janesville, Wis.
Josephine Alice Whitford	Farina, Ill.
Cressie Myrtle Wileman	Milton Junction
Florence Lenore Wileman	Milton Junction

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Special Students

William Shultis Carr	Milton
Clarence Clarke Coon	Milton Junction
Alexander Kenworthy Daland	Milton
Thomas Campbell Gaby	Milton
Harvey Edward Holmes	Milton
Mrs. May Minnie Johnson	New Auburn
Dr. Rosa W. Palmborg	Shanghai, China
Bert Henry Waterman	Milton
E-Ling Waung	Shanghai, China

—9

SCHOOL OF MUSIC

Harmony

Flavia Blakely	Janesville
Marion Elvira Coon	Milton Junction

Beth D. Hall	Milton
Ruth Zinn Schlagenhauf	Farina, Ill.

—4

Pianoforte

Charlotte Gertrude Babcock	Milton
Frances Alberta Babcock	Milton
Corliss Baker	Milton Junction
Mizpah Bennett	Milton
Susie Burdick	Milton Junction
William Jackman Carr	Milton
Lillian Margaret Clark	Milton, R. F. D.
Marion Elvira Coon	Milton Junction
Mary Ellen Crandall	Milton
Walter Theodore Crandall	Milton Junction
Wilma Dix	Milton Junction, R. F. D.
Frances Althea Ellis	Milton
Frieda Mathilda Einerson	Milton Junction
Martha Genevieve Fisher	Milton Junction
Florence Gray	Milton
Muriel Gray	Milton
Eva Rose Gurley	Milton
Beth D. Hall	Milton
Nina Mae Haskins	Milton
Florence Harker	Milton
Vivian Hill	North Loup, Nebr.
Ruth E. Holliday	Milton
Alice Holmes	Milton
Martha Louise Hughes	Milton Junction
May M. Johnson	New Auburn
Florence Kier	Milton
Ruth Meilick	Milton Junction, R. F. D.
Henny Wanda Olsted	Milton
Winifred Palmiter	Albion
Janet Paul	Milton Junction
Ruth Esther Paul	Milton ,R. F. D.
Anna Ensign Post	Milton
Doris Randolph	Milton
Ardis Rice	Milton, R. F. D.
Anna F. Richardson	Milton Junction
Jessie Byrle Sayre	North Loup, Nebr.
Ruth Zinn Schlagenhauf	Farina, Ill.
Willard Shadel	Milton Junction
Hattie Allice Stewart	Milton
Arlene Stockman	Milton Junction

Gladys Stoller	Johnstown
Hartley Summers	Milton
Henry F. Zelka	Milton
Pauline J. Warner	Milton Junction
E-ling Waung	Shanghai, China
Venice Leona Wileman	Milton Junction
Bernice Will	Johnstown
William Whitford	Milton

—48

Voice

Audree Babcock	Garwin, Iowa
Albert Henry Babcock	North Loup, Nebr.
Flavia Blakely	Janesville
Marion Elvira Coon	Milton Junction
Floyd Fay Ferrill	Farina, Ill.
Florence Gray	Milton
Leila Gray	Milton
Doris Holston	Milton Junction
May M. Johnson	New Auburn
Philip Butler Marquart	Milton Junction
Chester Davis Newman	Milton
Bertha Sybil Reid	Milton

—12

Elocution

Genevieve Ayers	Milton

Violin

Audree Babcock	Garwin, Iowa
Lillian Babcock	Milton
Dorothy Bennett	Albion
Paul Hurley Hemphill	North Loup, Nebr.
John Edward Holmes	Milton
George Kruger	Lima
Adele Schrupp	Lima
Edith Stockman	Milton Junction
William Truman	Lima
Winifred Van Horn	Milton
Grace Waterman	Milton

—11

Violoncello

Constance Bennett	Milton
Cleone Bingham	Milton
Clara Lippincott	Battle Creek, Mich.

—3

Organ

Jessie Post . . . . . Milton

Orchestra

FIRST VIOLINS:
Miss Goldie Davis, Principal
Miss Audree Babcock
Miss Ardis Bennett
Mr. Ralph A. Buell
Miss Doris Randolph
Mr. Vincent Raukuce
Mr. Harold E. Smith
Mr. Lorraine Summers

SECOND VIOLINS:
Miss Dorothy Maxson, Prin.
Miss Ruth Burdick
Mr. William S. Burdick
Miss Gertrude Gessler
Mr. Paul H. Hemphill
Miss Elma Mills
Miss Ruth Schlagenhauf
Miss Edith Stockman

VIOLAS:
Miss Alberta Crandall, Prin.
Dr. George W. Post, Sr.

VIOLONCELLOS:
Miss Cleone Bingham, Prin.
Miss Constance Bennett
Miss Clara Lippincott
Mr. Truman G. Lippincott

BASS VIOLS:
Miss Anna Post, Principal
Miss Mildred Campbell
Miss Tacy Coon

FLUTES:
Mr. Noble C. Lippincott
Mr. Neal D. Mills

CLARINETS:
Prof. William D. Burdick
Mr. Melvin S. Chadsey
Mr. Merlin J. Chadsey

SAXOPHONES:
Miss Ruth Babcock
Mr. Harvey E. Holmes

HORNS:
Miss Mizpah Bennett
Mr. Morton F. Johnson

CORNETS:
Mr. D. Stanley Fox
Mr. Joe E. Johnson
Mr. Chester D. Newman
Mr. Howell S. Randolph

TROMBONES:
Mr. Howard V. Fox
Mr. Charles S. Maxson
Mr. L. Beryl Whitford

DRUMS:
Mr. Fred W. Crumb

PIANIST:
Miss Jessie Post

LIBRARIAN:
Miss Ruth Babcock

Glee Club

FIRST TENOR:
Floyd F. Ferrill
Herbert P. Kakuske
Noble C. Lippincott
Joe E. Johnson

SECOND TENOR:
Howell S. Randolph
William D. Burdick
Paul H. Hemphill
Morton F. Johnson

FIRST BASS:
Ralph R. Holliday
George O. Johnson
James K. Shiba
Leman H. Stringer

SECOND BASS:
Walter W. Holliday
Truman G. Lippincott
H. Arthur Curtis
Alfred E. Whitford

Treble Clef

FIRST SOPRANOS:
Audree Babcock
Gladys Coon
Alberta Crandall
Gertrude Gessler
Dorothy Maxson
Catharine Shaw
Ruth Schlagenhauf

SECOND SOPRANO:
Flavia Blakely
Marion Coon
Hazel Greatsinger
Chloe Van Horn
Meribah Ingham
Lenore Kumlien
Clara Lippincott

FIRST ALTOS:
Ardis Bennett
Tacy Coon
Vera Coon
Goldie Davis
Ruby Van Horn
Elma Mills
Jessie Post
Doris Randolph
Marguerite Thorngate
Dorothy Wheeler

SECOND ALTOS:
Myrtelle Ellis
Vivian Hill
Myrtle Lewis
Anna Post
Helen Shaw

Elementary Singing Class

Genevieve Ayers
George Babcock
Rolland Barker
Jessie Burnett
Merlin Chadsey
Theodore M. Chang.
Edith Crosley
Ruby Fetherston
Theodore Fetherston
Elizabeth Fletcher
Amie Greene
Gilbert Jeffrey
May Johnson
Neal Mills

Carroll Oakley
Mildred Palmiter
Estella Pearce
Madeline Pepper
Vincent Raukuce
James Shiba
Harold Smith
Rose Stillman
Theodore Stillman
Eloise Thomas
Aletha Thorngate
Maurice Van Horn
Willis Van Horn
E-ling Waung
Kenneth Wells

SUMMARY OF THE CATALOGUE OF STUDENTS

College

Senior Class	10
Junior Class	23
Sophomore Class	24
Freshman Class	34
Special Students	9
Total	100

School of Music

Harmony	4
Pianoforte	48
Voice Culture	12
Elocution	1
Violin	11
Violoncello	3
Organ	1
Glee Club	16
Treble Clef	29
Orchestra	43
Elementary Singing Class	29
Total in School of Music counted once	147
Total in School of Music not in college	76
	176

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20/21

MILTON COLLEGE

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Catalogue

1920-1921

MILTON COLLEGE

Catalogue

1920-1921

CALENDAR FOR YEAR 1921-1922

1921		
Sept. 19-21	Monday-Wednesday	Registration days
Sept. 22	Thursday	First semester begins
Nov. 24-27	Thursday-Sunday	Thanksgiving recess
Dec. 21	Wednesday	Sophomore and Junior orations due
Dec. 22	Thursday	Christmas recess begins
1922		
Jan. 3	Tuesday	Recitations resumed
Jan. 26	Thursday	Day of prayer for colleges
Jan. 23-27	Monday-Friday	Registration days for second semester
Jan. 30-Feb. 3	Monday-Friday	Final examinations, first semester
Feb. 6	Monday	Second semester begins
Feb. 28	Tuesday, 8 P. M.	Oratorical contest
Mar. 7- 8	Tuesday-Wednesday	Basketball tournament
Mar. 22-28	Wednesday-Tuesday	Spring recess
Mar. 29	Wednesday	Recitations resumed
May 30	Tuesday	Memorial Day
June 5-9	Monday-Friday	Final examinations, second semester
June 9-15	Friday-Thursday	Commencement Week

Commencement Exercises, 1921, will be held on Thursday morning, June 16, at 10 o'clock.

BOARD OF TRUSTEES

Office expires in 1921

Prof.	ALBERT WHITFORD, M. A.,	Milton
	WILLIAM B. MAXSON,	Milton
	GEORGE R. BOSS,	Milton
	J. NELSON HUMPHREY, M. A.,	Whitewater
	FRED C. DUNN,	Milton
	JAMES B. BORDEN, M. A.,	Madison
	JAMES H. COON,	Milton
	TRUMAN A. SAUNDERS,	Milton
	GEORGE W. POST, M. A., M. D.,	Chicago, Ill.

Office expires in 1922

	L. HARRISON NORTH,	Milton
	ALLEN B. WEST, M. A.,	Milton Junction
Rev.	WILLIAM C. DALAND, M. A., D. D.,	Milton
	WILLIAM B. WELLS, M. A., M. D.,	Riverside, Cal.
Rev.	HENRY N. JORDAN, M. A.,	Milton
	GRANT W. DAVIS,	Milton
	A. LOVELLE BURDICK, M. S., M. D.,	Milton
	BENONI I. JEFFREY,	Milton
	GEORGE E. CROSLEY, M. D.,	Milton

Office expires in 1923

	E. STILLMAN BAILEY, M. A., Ph. D., M. D.,	Chicago, Ill.
	C. EUGENE CRANDALL, M. A., Ph. D.,	Milton
Rev.	G. MONTROSE COTTRELL	Topeka, Kan.
	WALTON H. INGHAM, Ph. B.,	Fort Wayne, Ind.
	GILES F. BELKNAP	Waukesha
	ALBERT S. MAXSON, M. D.,	Milton Junction
	LESTER M. BABCOCK, M. A., D. D. S.,	Milton
	GEORGE E. COON, M. D.,	Milton Junction
	JUSTIN H. BURDICK, M. D.,	Milton

OFFICERS OF THE BOARD

Dr. A. Lovelle Burdick, President.
Rev. Henry N. Jordan, Vice President.
Dr. Lester M. Babcock, Secretary.
C. Eugene Crandall, Treasurer.
Walton H. Ingham, Financial Agent.

STANDING COMMITTEES OF THE BOARD

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Giles F. Belknap Benoni I. Jeffrey Dr. J. H. Burdick
Dr. George E. Coon Allen B. West
Rev. Henry N. Jordan Dr. Lester M. Babcock
The President of the Board, *ex officio*

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Dr. Albert S. Maxson
The Treasurer, *ex officio*

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Dr. George E. Crosley F. C. Dunn
The Secretary of the Board, *ex officio*

Committee on Scholarships

Dr. George W. Post, Chairman
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Committee on Buildings and Grounds

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James H. Coon, Chairman Truman A. Saunders

Medical Director

Dr. A. Lovelle Burdick

Medical Director for Women

Dr. Susan S. Randolph

Advisory Medical Council

Dr. Albert S. Maxson Dr. George E. Crosley
Dr. George W. Post Dr. Justin H. Burdick
Dr. George E. Coon

Janitor

Martine M. Lanphere

FACULTY

WILLIAM CLIFTON DALAND, M. A., D. D., President, Professor of the English Language and Biblical Literature.

ALBERT WHITFORD, M. A., Professor Emeritus of Mathematics and Astronomy.

WALTER DAVIS THOMAS, M. A., Professor of Greek and History.

ALFRED EDWARD WHITFORD, M. A., Professor of Mathematics and Physics.

ALBERT ROGERS CRANDALL, M. A., Ph. D., Sc. D., Professor Emeritus of Natural History and Physiology.

DAVID NELSON INGLIS, M. A., Professor of Romance Languages.

LEMAN HUFFMAN STRINGER, B. A., Professor of Public Speaking and Instructor in Voice Culture.

HARRIS MERRILL BARBOUR, M. A., Professor of Philosophy and History.

JOHN NORTON DALAND, M. A., Professor of Latin.

WILLIAM DIGHTON BURDICK, B. A., Professor of Chemistry.

*FRANK GREGORY HALL, B. A., Professor of Biology.

Mrs. ANNA SOPHIA CRANDALL, M. A., Instructor in German.

Note—With the exception of the President, professors are named in the order of their appointment.

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* On leave of absence.

Miss MABEL MAXSON, M. A., Instructor in English Literature.

WILLIAM ALEXANDER KENYON, B. A., Associate Professor of Biology.

Miss ZEA ZINN, B. A., Instructor in English.

JAMES K. SHIBA, Assistant in Mathematics and Physics.

JAMES I. STILLMAN, Assistant in Mathematics.

Miss MABEL F. ARBUTHNOT, Assistant in Latin.

Miss ALBERTA CRANDALL, Instructor in Piano Playing.

Miss GOLDIE ESTELLE DAVIS, Instructor in Violin Playing.

Miss BETH ARMINTA BINGHAM, Assistant Instructor in Piano Playing.

Miss MABEL MAXSON, M. A., Librarian.

Prof. A. E. WHITFORD, M. A., Registrar.

Miss ZEA ZINN, B. A., Matron in Goodrich Hall.

Note: At the end of the present college year Professor Barbour, after eight years of faithful service, will sever his connection with the college. The Rev. Dr. Charles B. Clark, now pursuing studies in the University of Michigan, will in September assume his duties as Professor of Philosophy and Education. The college classes in history will next year be divided between Professor J. N. Daland and Professor Thomas. Mr. George H. Crandall has accepted the position of Physical Director and Athletic Coach, and it is expected that he will assume the duties of that position in September.

GENERAL INFORMATION

The present college catalogue gives only such information as exhibits changes from the catalogue of 1919-1920. Any subject not treated in this catalogue may be sought in the former issue, a copy of which may be procured at the college office or will be sent to any address on request. Since two or three hundred of those catalogues remain unused, it has been thought best not to reprint in this catalogue matter that usually remains the same from year to year.

REQUIREMENTS IN GENERAL

Milton College requires for entrance fifteen units of high school work, and for graduation one hundred and twenty semester-hours of college work exclusive of physical exercises and senior theses. For details see last year's catalogue.

FEES AND EXPENSES

In general the cost of instruction to a student is twenty-five dollars a semester, or fifty dollars a year. In addition to the charge for instruction laboratory fees in science and minor charges make the cost to a student from sixty to ninety dollars a year aside from room, board, books, and personal expenses, which at Milton are in general less than in more expensive places. For detailed information concerning expenses and concerning free scholarships, see last year's catalogue.

Note: For specific information not apparently obtainable either from this or last year's catalogue address:

President William C. Daland,
Milton College,
Milton, Wisconsin.

DEPARTMENTS OF INSTRUCTION

English

1 Freshman English.

Lectures on English composition. Exercises in paragraph and theme writing, directed toward the formation of an effective prose style. Text-books: Newcomer's *Elements of Rhetoric* and Lewis's *Specimens of the Forms of Discourse.* Required of all college students in the Freshman year. *Three hours a week throughout the year.*

Note—The work in this course consists of the following parts:

a) Class exercises or lectures three times a week.

b) Short themes based on exercises in Lewis's *Specimens of the Forms of Discourse* twice a week.

c) Weekly translations from a foreign language.

d) Longer bi-weekly themes based on the required readings.

e) Required readings: (1) A book of general reading and a standard novel, (2) Winchester's *Principles of Literary Criticism*, (3) Matthew Arnold's *Essays in Criticism*, selected.

2 Sophomore Composition.

Narrative composition. During the recitation hour the class pursues the study of the American short story. Compositions are required weekly or fortnightly. Elective. *Two hours a week throughout the year.*

3 a Elementary Anglo-Saxon.*

An elementary course with a view to the mastery of the grammar and the reading of normalized West Saxon prose, especial attention being given to the derivation of words. Text-book, Cook's *First Book in Old English. Two hours a week in the first semester.*

*Courses 3 to 9 have special reference to the history and development of the English language. Course 3a is required in the sophomore year of those choosing English as a major. It is advised that English students pursue consecutively either courses 3a, 3b, 4, 5, and 6 or 3a, 7, 8, and 9. The most of these are two-hour classes and they may easily be pursued in connection with other work.

3 b Anglo-Saxon Prose.

Further study of Anglo-Saxon, especially of difficult forms and syntax. Extensive reading of prose selections. Text-book, Bright's *Anglo-Saxon Reader.* Continuation of course 3a. *Two hours a week in the second semester.*

4 Anglo-Saxon Poetry.

Poetical selections in Cook and Bright, supplemented by other texts according to the ability of the class. *Two hours a week throughout the year.*

5 Anglo-Saxon Dialects.

A study of the Northumbrian, Mercian, and Kentish dialects, with many of the most ancient remains of heroic poetry. Text-books: Kluge's *Angelsächsisches Lesebuch*, Sievers' *Angelsächsische Grammatik*, and Sweet's *Student's Dictionary of Anglo-Saxon*, with references to Kluge's *Geschichte der englischen Sprache.* Open to senior students in Anglo-Saxon. *Three hours a week in the first semester.*

6 Beowulf.

Study of the Anglo-Saxon text with reference to early Germanic life and customs. Text-book, Wyatt's *Beowulf*, with references to other works. Open to senior students in Anglo-Saxon. *Three hours a week in either semester, as classes may be arranged.*

7 Early Middle English.

A. D. 1066-1300. Homilies, *Later Saxon Chronicle,* and prose selections in the Midland dialect; *The Ormulum, Havelok the Dane,* and poetical selections in the Midland dialect; *The Ancren Riwle* and prose selections in the Southern dialect; poetical selections in the Southern dialect, Layamon's *Brut, The Owl and the Nightingale* and *King Horn.* The Midland dialect is made the basis of grammatical instruction, and especial attention is given to Danish and Norman influences. Text-book: Emerson's *Middle English Reader,* with supplementary texts. Open to those who have taken course 3a. *Two hours a week in the second semester.*

8 Later Middle English.

A. D. 1298-1400. Sir John Mandeville, Wiclif, John of Trevisa, Dan Michel of Northgate *(Ayenbite of Inwyt)*, Robert of Gloucester, *Handlying Synne*, Lawrence Minot, *Cursor Mundi*, Barbour *(The Bruce)*, Langland, Gower, and Chaucer, with a closer study of dialects, including the Northern dialect. Textbooks as in course 7. Open to those who have taken courses 3a and 7. *Two hours a week in the first semester.*

9 Transition and Tudor English.

A. D. 1400-1579. Occleve, Lydgate, James I. of Scotland, Ballads, Dunbar, Douglas, Mallory, More, Tyndale, Ascham, Berners, etc., to Spenser. Text-book, Skeat's *Specimens of English Literature*, 1349-1579. Open to those who have taken course 3a. *Two hours a week in one semester.*

10 College Literature.

A general survey of English literature Textbooks: *Century Readings for a course in English Literature*, edited by J. W. Cunliffe, J. F. A. Pyre, and Karl Young, and *Century Outlines for a course in English Literature*, compiled by F. A. Pyre, T. H. Dickinson, and Karl Young. *Three hours a week throughout the year.*

11 Shakespeare.

The following plays are studied: First Semester: *Love's Labour's Lost, Henry V., The Tempest, Midsummer Night's Dream, Romeo and Juliet, The Merchant of Venice, As You Like It.* Second Semester: *Twelfth Night, Hamlet, Othello, Macbeth. Antony and Cleopatra, Coriolanus, A Winter's Tale.* Text-book, *Shakespeare's Principal Plays*, edited by Brooke, Cunliffe, and MacCracken. *Three hours a week throughout the year.*

12 a Browning.

A careful study of the poet's life, followed by the reading and interpretation of the most important of his poetical works. Textbook, The Globe Edition of Browning's works. *Two hours a week in the first semester.*

12 b Tennyson.

The study of Tennyson's development as a poet. Nearly all the poems are read in class. Text-book, The Globe Edition of Tennyson. *Two hours a week in the second semester.*

13 a The Romantic Movement.

A study of the movement in general, followed by particular study of the poetical works of Coleridge, Wordsworth, Byron, Shelley, and Keats. Text-book, Page's *British Poets of the Nineteenth Century. Two hours a week in the first semester.*

13 b The Victorian Era.

A continuation of 13 a. Study of the poetical works of Landor, Browning, Tennyson, Rossetti, Arnold, Morris, and Swinburne. Text-book the same as for 13 a. *Two hours a week in the second semester.*

14 Ballads and Folklore.

English and Scottish popular ballads. Origin of ballads in relation to origins of art. Text-book, *English and Scottish Popular Ballads,* edited by Sargent and Kittredge, from the collection by F. J. Child. *Two hours a week in the first semester.*

15 Modern Drama.

A study of the drama of the nineteenth and twentieth centuries in relation to the work of Ibsen. *Two hours a week in one semester.*

16 English Novel.

An historical survey of the whole period of the English novel. Lectures, class exercises, and occasional papers. *Two hours a week in one semester.*

17 Milton.

A study of Milton's poetry. Text-book, The Cambridge Edition of Milton. *Two hours a week in the second semester.*

Note—Courses 2 and 10 to 17 are not given every year. In 1921-1922 courses 2, 10, and 13 will probably be given.

History

1 Medieval History.

Brief preliminary survey of ancient European history. Study of Medieval Europe from the barbarian invasions to the 16th century. Lectures, recitations, and written tests. Text-book, Adams' *European History*, supplemented by other works. Required in the sophomore year. *Three hours a week in the first semester.*

2 Modern History.

The history of Europe from the Reformation to the present time. Lectures, oral and written tests. Adams' *European History* and supplementary texts. Required in the sophomore year. *Three hours a week in the second semester.*

3 a American History.

Covering the time of discovery, settlement, colonial development, the French Wars and the Revolutionary struggle. *Three hours a week in the first semester.*

3 b American History.

The formation and development of the nation, beginning with the critical time of 1783 and extending through the time of reconstruction after the Civil War. *Three hours a week in the second semester.*

4 a English History.

The history of England from the earliest times to the Reformation. Text-book, Gardiner's *A Student's History of England.* Supplementary reading in other texts and in such special accounts as Cunningham's *The Growth of English Industry and Commerce* and Traill's *Social England. Three hours a week in the first semester.*

4 b English History.

The history of England from the Reformation to the present time Text and assigned readings as in 4 a. *Three hours a week in the second semester.*

5 a Recent Modern History.

From 1815 to 1870. *Three hours a week in the first semester.*

5 b Recent Modern History.

From 1870 to the Present. *Three hours a week in the second semester.*

Political and Economic Science

1 Advanced Civics.

Text-book, Beard's *American Government and Politics* with references to Wilson's *The State,* Bryce's *American Commonwealth,* and other works. *Three hours a week in one semester.*

2 Economics.

Text-book, Bullock's *Introduction to the Study of Economics,* with references to Mill's *Principles of Political Economy* and other standard works. *Three hours a week in one semester.*

Philosophy

1 Descriptive Psychology.

Lectures. Text-book, Angell's *Psychology,* with references to Ladd, James, and other authors. Required in the sophomore year. *Three hours a week in the first semester.*

2 Experimental Psychology.

Lecture. Text-book, Seashore's *Elementary Experiments in Psychology.* Required in the sophomore year. *Three hours a week in the second semester.*

3 Logic.

Lectures. Text-book, Creighton's *Introductory Logic,* with references to Mill, Bosanquet, and other authors. Required in the junior year. *Three hours a week in the first semester.*

4 Introduction to Philosophy.

Lectures and discussion. Text-book, Paulsen's *Introduction to Philosophy.* Required in the junior year. *Three hours a week in the second semester.*

5 Ethics.

Lectures. Text-book, Dewey and Tuft's *Ethics* with references to bibliography. Required in the senior year. *Two hours a week throughout the year.*

6 History of Philosophy.

Lectures. Text-book, Cushman's *A Beginner's History of Philosophy* with assigned readings. *Two hours a week throughout the year.*

Education

1 History of Education.

Lectures. Monroe's *Text-book*, with references to extensive bibliography. *Two hours a week throughout the year.*

2 Educational Psychology.

Lectures. Text-book, Lange's *Apperception* with references to bibliography. *Three hours a week in one semester.*

3 Pedagogy.

Lectures on the principles of teaching. Extensive bibliography. Practical work in teaching. *Three hours a week in the second semester, usually in the senior year.*

Note—Course 1 and either course 2 or course 3 are required in the case of those who wish to teach in high schools.

Latin

B Beginners' Latin.

For students without previous work in Latin. The elements of Latin and Caesar's *Gallic War,* Books I-III or selected portions from Books I to V. *Five hours a week throughout the year.*

A Cicero and Virgil.

Six orations of Cicero and six books of Virgil's *Æneid.* Prose composition. *Five hours a week throughout the year.*

1 Livy or Cicero.

Selections from Livy, Books I. and II., or XXI. and XXII., or else either Cicero's Essay on *Old Age* or on *Friendship*, supplemented by Virgil's Pastoral Poems. Exercises in writing Latin once a week. *Four hours a week in the first semester.*

2 Catullus or Horace, and Terence.

Selections from Catullus or Horace and the Phormio of Terence. *Four hours a week in the second semester.*

3 Tacitus.

The *Treatise on Germany* and the *Life of Agricola. Three hours a week in the first semester.*

4 Roman Satire.

Selections from Horace and Juvenal. *Three hours a week in the second semester.*

5 Latin Composition.

Open to students who have completed courses 1 and 2. *One hour a week throughout the year.*

6 Cicero's Letters.

About fifty letters will be read with emphasis on the character and age of Cicero. The course is designed to throw light on the causes of the fall of the Roman Republic. *Three hours a week in the first semester.*

7 Roman Drama.

Selected plays of Plautus and Terence. *Three hours a week in the second semester.*

8 Advanced Latin Composition.

Open to students who have completed courses 1 to 5. *One hour a week throughout the year.*

9 Rapid Reading Course.

Either a. Curtius, b. Sallust, c. Caesar, Book VII, d. Nepos, e. Ovid, or, f. Miscellaneous selections. *One hour a week throughout the year.*

10 Lucretius.

Selections from the poem on the *Nature of Things. Two hours a week in one semester.*

11 Catullus.

Selections from the Poems. *Two hours a week in one semester.*

12 Pliny the Younger.

Selections from the Letters. *Two hours a week in one semester.*

13 Suetonius.

The Life of Augustus. A course designed to throw light on the founding of the Roman Empire. *Three hours a week in one semester.*

14 Tacitus.

The Life and times of the Emperor Nero. The later books of the *Annals* will be the text. *Three hours a week in one semester.*

15 Latin Prose Survey.

A survey of Latin prose authors from Cato to Seneca read by selections. *Three hours a week in one semester.*

16 Special Subjects.

a. Roman Customs, b. Roman Religion, c. Roman Law, d. Roman Political Institutions. *Two hours a week in one semester.*

17 Late Latin.

Latin hymns, with portions of the New Testament read in class at sight. *Two hours a week in one semester.*

Note—Courses 3 to 17 are not all given every year. In 1921-1922 courses 4 and 15 and perhaps others will be offered.

Greek

B Beginners' Greek.

The elements of Greek and Xenophon's *Anabasis,* Books I and II. *Four hours a week throughout the year.*

A Xenophon and Homer.

The *Anabasis,* Books III and IV, and the *Iliad,* Books I-III, or the *Odyssey,* Books I-IV. Greek Composition accompanies the Anabasis. *Four hours a week throughout the year.*

1 Homer and Lysias.

Homer's *Odyssey,* Books V-XII, or the *Iliad,* Books IV-VI, and selections, in the first semester; Lysias, with gram-

mar and composition, and the *Philippics* of Demosthenes in the second semester. *Five hours a week.*

2 Advanced Greek.

The Alcestis of Euripides, selections from Herodotus and Thucydides, and Jebb's *Primer of Greek Literature,* in the first semester. Plato's *Apology* and *Crito* and Thucydides, in the second semester. *Three hours a week.*

3 Dramatic Poets.

Two plays of Æschylus, Sophocles, or Euripides and the study of meters in the first semester. Plays of Aristophanes with discussion of the Attic Drama and Theatre in the second semester. *Three hours a week.*

4 Poets and Orators.

Greek Lyric Poets in the first semester: Greek Orators in the second semester. *Three hours a week.*

5 Plato.

Selected Dialogues. *Twice a week throughout the year.*

French

1 First Year French.

Work in grammar, reading, conversation, and phonetics, based upon Fraser and Squair's *French Grammar.* Additional texts read during the year. *Four hours a week throughout the year.*

2 Second Year French.

Translation and criticism of standard French authors, following the development of French literature from the seventeenth century through the nineteenth century. Composition one hour a week. *Four hours a week throughout the year.*

3 Composition and Conversation.

For students who wish to do advanced work in composition, conducted wholly in French. *Two hours a week throughout the year.*

4 General Survey.

A brief survey of the whole field of French literature, showing main divisions and placing representative authors. Lectures and collateral reading. *Three hours a week throughout the year.*

5 Nineteenth Century Drama.

Study and criticism of representative dramatists, such as Hugo, Dumas-Fils, Augier, Scribe, Rostand, and others. Lectures and assigned reading. *Three hours a week in the first semester.*

6 The Novel.

A study of the development of the novel, beginning with the Pastoral Romance and extending through the 19th century. Rapid reading of representative authors, reports, and assigned reading. *Three hours a week in the second semester.*

7 Sight Reading.

A course in rapid sight reading, taken only in connection with some other course. *Two hours a week. One credit.*

8 Methods of Teaching.

A course in preparation for the teaching of French. *Two hours a week in one semester.*

Spanish

1 First Year Spanish.

De Vitis' *Spanish Grammar.* Translation of selections from *Gil Blas. Four hours a week throughout the year.*

2 Second Year Spanish.

Translation of selections from the *Don Quijote* of Cervantes and from more modern writers. *Two hours a week throughout the year.*

3 Commercial Spanish.

For students who wish practical work in business Spanish, writing letters, advertisements, making out bills, etc. *Two hours a week throughout the year.*

German

B Beginners' German.

For students without previous work in German. *Five hours a week throughout the year.*

1 Freshman German.

Modern prose, narrative and dramatic, and a drama by Lessing or Schiller. Review of the grammar and syntax. Written and oral exercises. Open to those who have had German B or who offer two entrance units of German. *Four hours a week throughout the year.*

2 Classical and Modern Writers.

Selections from nineteenth century novelists and at least two important dramas by Goethe or Schiller. Written exercises. For students who have had German 1. *Three hours a week throughout the year.*

3 German Composition and Conversation.

This course is especially intended for those who look forward to teaching. *Two hours a week throughout the year.*

4 Sight Reading.

Rapid translation of literary prose and articles in current magazines and newspapers. *Two hours a week (one hour credit) throughout the year.*

5 Modern German Dramatists.

Selected dramas from Grillparzer, Hebbel, Ludwig, Hauptmann and Sudermann, or several dramas of one of these authors, with critical study of his life and works. *Two hours a week in the first semester.*

6. Modern German Novelists.

Readings from Scheffel, Freytag, Keller, Sudermann and Frensson. Representative selections will be read in class and others will be assigned for private reading. *Two hours a week in the second semester.*

7 Goethe.

An introduction to the works of Goethe chosen from the different periods of his literary activity, including Faust. *Two or three hours in the first semester.*

8 German Epic, Ballad, and Lyric Poetry.

The course gives a hasty survey of German poetry from the Middle Ages to the present time, including parts of the *Nibelungenlied,* Court Epics, and characteristic *Minnelieder,* in Modern German translations, and selections from leading poets of the eighteenth and nineteenth centuries. Reports on assigned reading. *Two hours a week in the second semester.*

9 Special Courses.

Other courses may be arranged, as the critical study of one author, as Goethe, or of one period, as the Romantic period, or a general survey of the history of German literature.

10 The Teaching of German.

A course in methods of teaching German, for those intending to become teachers. *Two hours a week in one semester.*

Mathematics

A Solid Geometry.

Ford and Ammerman's Solid Geometry. For those who have not had solid geometry in the high school. *Three hours a week in either semester.*

1 Algebra.

Brenke's *Advanced Algebra.* Review of elementary algebra, properties of quadratic equations with emphasis on their graphical interpretations, binomial theorem, variation, progressions, permutations and combinations, and general theory of equations. Required in the freshman year. *Three hours a week in the first semester.*

2 Plane Trigonometry.

Rothrock's *Plane and Spherical Trigonometry.* Theory of trigonometric functions, solutions of triangles, elements of

logarithms, and complex numbers. Required in the freshman year. *Three hours a week in the second semester.*

3-4 Analytic Geometry.

Smith and Gale's *New Analytic Geometry.* Systems of co-ordinates, loci and their equations, equations and their loci, loci of first order, of second order, and of higher orders, analytic geometry of space. Open to those who have taken courses 1 and 2. *Three hours a week throughout the year.*

5-6 Calculus.

Granville's *Differential and Integral Calculus.* Theory of limits, differentiation, integration, areas, lengths of arcs, maxima and minima, successive integration, curvature, evolutes, series, expansion of functions. Open to those who have had course 3-4. *Three or four hours a week throughout the year.*

7 Differential Equations.

An elementary treatment of differential equations with applications to physics and mechanics. Open to those who have taken courses 5 and 6. *Three hours a week in the first semester.*

8 Surveying

Recitations and problems in the determination of heights, distances, and areas. Field practice with the chain, the tape, the transit, and the level. Open to those who have taken course 2. *Two hours a week in either semester.*

9 Solid Analytic Geometry.

Snyder and Sisam's text. Determinants. Lines, planes, and surfaces. Properties of quadric surfaces. Homogeneous and tetrahedral co-ordinates. Required of those who take their major in mathematics. *Three hours a week in the first semester.*

10 The Teaching of Mathematics.

A course for those who will teach in high schools. A review of high school mathematics and comparison of text-books. Practical work in teaching. *Two hours a week in one semester.*

Astronomy

1 Introduction to Astronomy.

Moulton's text. A descriptive course designed to give the student familiarity with the solar system, the principal constellations, and the brighter stars. The results of modern investigations are discussed. Open to students beyond the freshman year. *Three hours a week in the second semester.*

Drawing

1 Mechanical Drawing.

Phillips and Orth's *Mechanical Drawing.* Free-hand drawing in perspective and in orthographic projection, use of instruments, lettering, working drawings, tracing, blue printing. Open to freshmen. *Three hours a week throughout the year.*

Physics

B Elementary Physics.

Text-books: Millikan and Gale's *First Course in Physics,* Millikan and Gale's *A Laboratory Course in Physics.* Open for credit to freshmen who have not offered physics for entrance. *Five hours a week throughout the year.*

1 General Physics.

Kimball's *College Physics.* Lectures and recitations, three hours a week. Laboratory practice, four hours a week. Open to those who have taken Mathematics 1 and 2. *Full study throughout the year.*

2 Heat and Light.

Advanced course of lectures. Open to those who have taken course 1. *Three hours a week in the first semester.*

3 Electricity and Magnetism.

Advanced course of lectures. Open to those who have taken course 1. *Three hours a week in the second semester.*

Chemistry

1 General Chemistry.

The subjects covered in this course will include a careful

study of the occurrence and properties of the elements, together with laws governing all chemical reactions. Prerequisite: Elementary physics; high school chemistry is recommended. Lectures or recitations two hours per week with three double laboratory periods per week throughout the year. *Five hours credit in each semester.*

2 Qualitative Analysis.

The detailed separation of the metals, non-metals and acid radicals. The student is required to apply the theory of course 1, and explain the reason for each reaction. Solubility product, laws of concentration, hydrolysis, amphoteric hydroxides, etc., are studied and applications made in the separations. Required of major students. Prerequisite: course 1. Two lectures or recitations with seven hours of laboratory work per week throughout the first semester. *Five hours credit in the first semester.*

3 Quantitative Analysis.

The work embraces the principal methods of gravimetric, volumetric, and electro-chemical analysis, and the use of reference works and chemical journals. This course gives quantitative application of the laws studied qualitatively in course 2. Required of major students. Prerequisite: courses 1 and 2. Two lectures or recitations per week with one to three hours credit of laboratory work throughout the second semester. *Maximum, five hours credit in the second semester.*

4 Organic Chemistry.

A study of the methods of preparation and the properties of the more important organic compounds. Special stress is laid upon the theories underlying the subject and the proofs of the constitution of most of the substances studied. Required of major students. Prerequisite: Course 1. One lecture per week and one to two hours credit of laboratory work throughout the year. *Maximum, three hours credit in each semester.*

5 Advanced Inorganic Chemistry.

A study of modern theories. Laboratory preparation of typical inorganic compounds. Prerequisite: Course 1. One lecture per week and one to two hours credit of laboratory work throughout the year. *Maximum, three hours credit in each semester.*

Biology

1 General Biology.

A course in Animal Biology with especial attention given to the Invertebrates in the first semester and to the Vertebrates in the second semester. The Lectures cover the principal facts of animal structure and development. They are illustrated by museum specimens and wall charts, in addition to the detailed laboratory study of typical representatives of the main branches of the animal kingdom. Occasional field excursions. Open to Freshmen and Sophomores. *Two hours each day. Five times a week throughout the year.*

2 Physiology.

Anatomy, Physiology, and Hygiene. Special attention is given to the functions of the mechanisms of the human body. Open to Sophomores and Juniors. *Three times a week in the first semester.*

3 Zoology.

Laboratory work and field study supplementary to Biology 1, but more advanced. Summary Thesis. Prerequisite, Biology 1. *Two hours each day. Three times a week in the second semester.* Given in 1922-1923 and alternate years.

4 Botany.

Laboratory and recitation. A course including plant physiology and the classification of the common spring flowers of the neighborhood. *Two hours each day. Three times a week in the second semester.*

5 Special Research.

Opportunity offered for work in a limited field. Credit to be arranged.

6 Genetics.

The main facts and theories of heredity and its mechanism, with emphasis on the phases pertaining to human welfare. Lectures, recitations, and reference readings. *Twice a week in the first semester.*

7 Histology.

Practical work combining a microscopical study of tissues of animals and the technic involved. Opportunity is afforded for the making of permanent preparations. Credit to be arranged. Prerequisite, Biology 1.

8 Reading and Discussion.

A course in reading of standard literature, reports and discussions upon topics of general importance to Biology students. Required of Seniors majoring in Biology. Prerequisite Biology 1. *One hour a week.*

Geology

1 Physiography and Dynamic Geology.

Lectures, review papers, and discussions. Open to juniors. *Twice a week in the first semester.* Given in 1921-1922 and alternate years.

2 Paleontology.

Class work, field studies, and a thesis. Open to juniors. *Four times a week in the second semester.* Given in 1921-1922 and alternate years.

English Bible

1 Old Testament.

Lectures and a study of the text of the American Standard Revision. Analysis of the Old Testament with introduction. Elective. *Three hours a week throughout the year.*

2 New Testament.

Lectures and a study of the text of the American Standard Revision. Analysis of the New Testament with introduction. Elective. *Three hours a week throughout the year.*

Note:—In 1921-1922, course 2 will be given.

Public Speaking

1 Public Speaking.

Text-book, Phillip's Effective Speaking. Should be taken during the sophomore year if possible, certainly by the junior year. May be taken in the freshman year by well prepared students. *Two hours a week throughout the year.*

2. Advanced Public Speaking.

Open to those who have had Public Speaking 1. No text-book required. This is a course in debating and the study of speeches by famous orators. *Two hours a week throughout the year.*

3 Course in Dramatic Reading.

Study of dramatic selections from Shakespeare and other standard authors. *Two hours a week throughout the year.*

ATHLETICS AND PHYSICAL TRAINING

Both Athletics and Physical Training are in charge of a Physical Director and a Medical Adviser. All students, at the opening of the year, must submit to a physical examination by competent physicians. Regular work in gymnasium classes is carried on throughout the year.

QUESTIONABLE PRACTICES

From previous catalogues it is generally known that the use of alcohol or tobacco, social dancing of men and women together, and the playing of games of chance are forbidden in the buildings or on the grounds of the institution, because the authorities of the college consider such practices detrimental to students during college years. We do not attempt to control the ethical practices of individuals in their private relations, but we nevertheless desire a body of students who can live in comfort without these indulgences. We do not seek problems of discipline. Hence we remind students and parents of students who wish to smoke, dance, or play cards, that there are other colleges in plenty where they may go if they wish to do these things.

CATALOGUE OF STUDENTS

COLLEGE

Senior Class

Vera Evelyn Coon	Milton Junction, Wis.
Henry Arthur Curtis	Milton, Wis.
Goldie Estelle Davis	Milton, Wis.
Myrtelle Ellis	Dodge Center, Minn.
Floyd Fay Ferrill	Farina, Ill.
Ruby Elizabeth Fetherston	Milton, Wis.
Elizabeth Mary Fletcher	Brooklyn, Wis.
Gertrude Gessler	Bangor, Wis.
Noble Curtis Lippincott	Milton, Wis.
Neal Dow Mills	Batttle Creek, Mich.
Mildred Ream Palmiter	Albion, Wis.
Mary Madeline Pepper	Evansville, Wis.
Arthur Lester Pierce	Iron River, Wis.
Vincent Raukuce	Wilna, Poland
Bertha Sybil Reid	Exeland, Wis.
Ruth Zinn Schlagenhauf	Farina, Ill.
Ruth Almira Schrader	Milton Junction, Wis.
James Irish Stillman	Milton, Wis.
Edith Lyle Stockman	Milton Junction, Wis.
Clifford Clarke Thomas	Milton, Wis.
Dorothy Kent Wheeler	Boulder, Colo.
Hazel Irene White	North Loup, Neb.

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Junior Class

Mabel Florence Arbuthnot	Janesville, Wis.
Ruth Maribel Babcock	Milton
Jessie Sarah Rebecca Burnett	Milton
Theodore Morrison Chang	Shanghai, China
Gerald Deane Hargis	Walworth
Etta Martha Hodge	Dodge Center, Minn.
Joe Ewing Johnson	Milton
Herbert Paul Kakuske	Janesville
Alice Lenore Kumlien	Milton
Leo Lu Lanphere	Milton
Myrtle Emma Lewis	Dodge Center, Minn.
Esther Lulu Loofboro	New Auburn
Dorothy Geraldine Maxson	Milton

Chester Davis Newman	Milton
Carroll Frank Oakley	Milton
Jessie Violet Post	Milton
Albert Gerald Sayre	Milton
Iva Marie Schrader	Milton Junction
James K. Shiba	Okaymaken, Japan
Rex Presley White	North Loup, Neb.

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Sophomore Class

Albert Henry Babcock	North Loup, Neb.
Edna Mabel Babcock	Battle Creek, Mich.
Ardis Lorena Bennett	Milton
Rex Porter Bond	Garwin, Iowa
William Stillman Burdick	Milton
Merlin J. Chadsey	Milton
Gladys Evangeline Coon	Ashaway, R. I.
Edith Catherine Crosley	Farina, Ill.
Hazel Irene Greatsinger	Evansville
Amie Catharine Greene	Milton
Paul Hurley Hemphill	North Loup, Neb.
Esther Vivian Hill	North Loup, Neb.
Harvey Edward Holmes	Milton
Meribah Winifred Ingham	Fort Wayne, Ind.
Earl A. Korth	Clearwater Lake
Clara Moreland Lippincott	Battle Creek, Mich.
Leon Irving Maxson	Battle Creek, Mich.
Arthur Maxson Mills	Milton
Elma Corinne Mills	Battle Creek, Mich.
Doris Randolph	Milton
Jessie Byrle Sayre	North Loup, Neb.
Leona Iola Sayre	North Loup, Neb.
Catharine Shaw	Yonkers, N. Y.
Raymond H. Sholtz	Oneida, N. Y.
Aletha Ruth Thorngate	North Loup, Neb.
Chloe Alberta Van Horn	Milton
Milton Ellis Whaley	Janesville
Josephine Alice Whitford	Farina, Ill.

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Freshman Class

Clyde Ellsworth Arrington	Milton
Lois Phoebe Atkinson	Milton
Audree Clair Babcock	Garwin, Iowa

Corliss Archie Baker	Milton Junction
Constance Aileen Bennett	Milton
Mizpah Evangeline Bennett	Milton
Ruth Evelyn Burdick	Milton
Beulah Bernice Coon	Ashaway, R. I.
Nema Fern Cruzan	North Loup, Neb.
Alexander Kenworthy Daland	Milton
Milton Daland Davis	Shiloh, N. J.
Myrl Nelson Davis	Milton
Pauline Schalk Davis	Fouke, Ark.
Lester Newton Dunwiddie	Mineral Point
Claude Skaggs Grant	Milton
Carroll Leigh Hill	North Loup, Neb.
Margaret Parker Howard	Nortonville, Kan.
Florence Christiania Huetten	Lake Geneva
Gladys Celina Hulett	Bolivar, N. Y.
George Wilton Hutchins	North Loup, Neb.
May Minnie Johnson	New Auburn
Helen Mertilla Jordan	Milton
Gerald Stennett Kennedy	Jackson Center, Ohio
Arden Luzerne Lewis	Dodge Center, Minn.
Helen Muriel Loofbourrow	Walworth, Wis.
Dorothy May Maxson	Battle Creek, Mich.
Katherine Eleanor Maxson	Milton
Lowen George Merrill	Superior
Frank Merigold Rodolf	New York, N. Y.
Eunice Pauline Rood	North Loup, Neb.
Holly Richard Sheard	Milton Junction
Ellwood Turner Shumway	Milton
Allison Edward Skaggs	Plainfield, N. J.
Barlow Spoon	Janesville
Lorraine Stephen Summers	Avalon
Edna May Sunby	Milton
Bruce Whitfield Thorngate	Salemville, Pa.
La Clede Frink Walters	Edgerton

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Special Students

Elizabeth Blanche Lane	Janesville
William Henry Moeller	Minot, N. D.
Dr. Rosa W. Palmborg	Shanghai, China
Paul Smith Van Horn	Dodge Center, Minn.
E-Ling Waung	Shanghai, China

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SCHOOL OF MUSIC

Pianoforte

Edna Mabel Babcock	Jackson Center, Ohio
Kenneth Babcock	Milton
Laurance Morris Bevens	Milton
Dorothy Bingham	Milton
Martha Brockhaus	Fort Atkinson
Walter Theodore Crandall	Milton Junction, R. F. D.
Nema Fern Cruzan	North Loup, Neb.
Edward Manning Ellis	Milton
Myrtelle Ellis	Dodge Center, Minn.
Martha Genevieve Fisher	Milton Junction
Martha Franke	Milton, R. F. D.
Florence Harker	Milton
Esther Vivian Hill	North Loup, Neb.
Chloe Van Horn Hemphill	Milton
Ruth Elizabeth Holliday	Milton
Margaret P. Howard	Nortonville, Kan.
Winnie May Hudson	Milton
Martha Louise Hughes	Milton Junction
Helen Mertilla Jordan	Milton
Helen Lenore Kumlien	Milton
Elizabeth Blanche Lane	Janesville, Wis.
Marian Lee	Milton
Esther Lulu Loofboro	New Auburn
Esther Mayer	Milton
Dorothy Geraldine Maxson	Milton
Katherine Eleanor Maxson	Milton
Leon Irving Maxson	Battle Creek, Mich.
Lowen George Merrill	Superior
Wanda Olstead	Milton
Janet Paul	Milton Junction
Ruth Esther Paul	Milton, R. F. D.
Mary Madeline Pepper	Evansville
Vincent Raukuce	Wilna, Poland
Bertha Sybil Reid	Exeland
Ardis Rice	Milton, R. F. D.
Carrie Richardson	Milton
Ethelyn Sayre	Milton
Jessie Byrle Sayre	North Loup, Neb.
Ruth Zinn Schlagenhauf	Farina, Ill.
Willard Shadel	Milton Junction

Arlyne Stockman	Milton Junction
E-Ling Waung	Shanghai, China
Dorothy Kent Wheeler	Boulder, Colo.
Dorothy Euphemia Whitford	Milton
William Whitford	Milton

—45

Harmony

Dorothy Geraldine Maxson	Milton
Harvey Edward Holmes	Milton

—2

Voice

Clyde Ellsworth Arrington	Milton
Audree Clair Babcock	Garwin, Iowa
Albert Henry Babcock	North Loup, Neb.
Corliss Archie Baker	Milton Junction
Flavia Blakely	Janesville
Beulah Bernice Coon	Ashaway, R. I.
Gladys Evangeline Coon	Ashaway, R. I.
Milton Daland Davis	Shiloh, N. J.
Hazel Davis	Milton
Margaret Parker Howard	Nortonville, Kan.
Gladys Celina Hulett	Bolivar, N. Y.
Joe E. Johnson	Milton
Gerald Stennett Kennedy	Jackson Center, Ohio
Elizabeth Blanche Lane	Janesville
Laura McBride	Milton
Dorothy Geraldine Maxson	Milton
Elma Corinne Mills	Battle Creek, Mich.
Neal Dow Mills	Battle Creek, Mich.
Ruth Zinn Schlagenhauf	Farina, Ill.
Ruth Sayre	Milton
E-Ling Waung	Shanghai, China
Grace Waterman	Milton

—22

Elocution

Leta Lanphere	Milton
Martha Brockhaus	Milton

—2

Violin

Frances Babcock	Milton
Lillian Babcock	Milton
Russel Brown	Milton
Marjory Bealls	Janesville
Frances Ellis	Milton
Edith Stockman	Milton Junction

—6

Elementary Singing Class

Lilian Babcock
Charlotte Babcock
Elaine Ballard
Clarice Bennett
Leona Chadsey
Myrl Davis
Lester Dunwiddie
Mona Dunwell
Frances Ellis
Ruby Ferguson
Claude Grant
Edna Green
Alice Holmes
Esther Jennings
Ruth Jennings
Hobart Kelly
Charlotte Maxon
Leon I. Maxson
Raymond Pierce
Merton Sayre
Robert Sheard
Raymond Sholtz
Rose Stillman
Ted Stillman
Eunice Thomas
Paul Van Horn
Albert Whitford
Dorothy Whitford
William Whitford

—29

Glee Club

FIRST TENOR:
Floyd F. Ferrill
Joe E. Johnson
Herbert P. Kakuske
Noble C. Lippincott
Barlow Spoon

SECOND TENOR:
Clyde E. Arrington
William D. Burdick
Paul H. Hemphill
Carroll L. Hill
Morton F. Johnson

FIRST BASS:
Albert H. Babcock
Chester D. Newman
H. Richard Sheard
James K. Shiba
Leman H. Stringer

SECOND BASS:
Corliss A. Baker
H. Arthur Curtis
Walter W. Holliday
Leon I. Maxson
Alfred E. Whitford

Treble Clef

FIRST SOPRANO:
Audree Babcock
Gladys Coon
Nema Cruzan
Gertrude Gessler
Clara Lippincott
Dorothy G. Maxson
Ruth Schlagenhauf
Catharine Shaw

SECOND SOPRANO:
Flavia Blakely
Ruth Burdick
Beulah Coon
Hazel Greatsinger
Chloe Van Horn Hemphill
Meribah Ingham
Elizabeth Lane
Sybil Reid
Edna Sunby
Zea Zinn

FIRST ALTO:
Lois Atkinson
Mabel Babcock
Ardis Bennett
Vera Coon
Goldie Davis
Elma Mills
Jessie Post
Doris Randolph
Dorothy Wheeler

SECOND ALTO:
Myrtelle Ellis
Vivian Hill
Gladys Hulett
Myrtle Lewis

PIANIST:
Katherine Maxson

Orchestra

FIRST VIOLINS:
Miss Goldie Davis, Prin.
Miss Audree C. Babcock
Miss Ardis L. Bennett
Miss Arlene Borden
Mr. Ralph A. Buell
Miss Myrtle V. Fox
Miss Doris Randolph
Mr. Vincent Raukuce
Mr. Lorraine Summers

SECOND VIOLINS:
Miss Dorothy G. Maxson, Principal
Miss Ruth E. Burdick
Mr. William S. Burdick
Miss Gertrude E. Gessler
Mr. Paul H. Hemphill
Mr. Gerald S. Kennedy
Miss Dorothy M. Maxson
Miss Elma C. Mills
Mr. Frank M. Rodolf
Miss Ruth Z. Schlagenhauf
Miss Edith L. Stockman
Miss Zea Zinn

VIOLAS:
Miss Alberta Crandall, Prin.
Dr. George W. Post, Sr.

VIOLONCELLOS:
Miss Constance A. Bennett, Principal
Mr. Louis A. Babcock
Miss Margaret Babcock
Miss Clara M. Lippincott
Mr. Truman G. Lippincott

BASS VIOLS:
Miss Beth A. Bingham, Prin.
Miss Gladys E. Coon
Mrs. P. H. Hemphill

FLUTES:
Mr. Noble C. Lippincott
Mr. Neal D. Mills
Mr. H. Richard Sheard

CLARINETS:
Mr. Melvin S. Chadsey
Mr. Merlin J. Chadsey
Mr. Harvey E. Holmes
Mr. Carroll F. Oakley

SAXOPHONE:
Miss Ruth M. Babcock

HORNS:
Miss Mizpah E. Bennett
Mr. Morton F. Johnson

CORNETS:
Mr. Clyde E. Arrington
Mr. D. Stanley Fox
Mr. Joe E. Johnson
Mr. W. Alexander Kenyon
Mr. Chester D. Newman

TROMBONES:
Mr. Howard V. Fox
Mr. Carroll L. Hill
Mr. Charles S. Maxson
Mr. L. Beryl Whitford

TIMPANI:
Mr. William D. Burdick

PIANO:
Miss Katherine E. Maxson
Miss Jessie V. Post

SUMMARY OF THE CATALOGUE OF STUDENTS

College

Senior Class	22
Junior Class	20
Sophomore Class	28
Freshman Class	38
Special Students	5
Total	113

School of Music

Harmony	2
Pianoforte	45
Voice Culture	22
Elocution	2
Violin	6
Elementary Singing Class	29
Glee Club	20
Treble Clef	32
Orchestra	53
Total in School of Music counted once	147
Total in School of Music not in college	73

186

library

MILTON COLLEGE

UNIVERSITY OF CALIFORNIA

Catalogue

1921-1922

MILTON COLLEGE

Catalogue

1921-1922

CALENDAR FOR YEAR 1922-1923

1922		
Sept. 18-20	Monday-Wednesday	Registration days
Sept. 21	Thursday	First semester begins
Nov. 30-Dec. 3	Thursday-Sunday	Thanksgiving recess
Dec. 20	Wednesday	Sophomore and Junior orations due
Dec. 21	Thursday	Christmas recess begins
1923		
Jan. 3	Wednesday	Recitations resumed
Jan. 25	Thursday	Day of prayer for colleges
Jan. 22-26	Monday-Friday	Registration days for second semester
Jan. 29-Feb. 2	Monday-Friday	Final examinations, first semester
Feb. 5	Monday	Second semester begins
Feb. 15	Thursday	Oratorical contest
Mar. 7-8	Wednesday-Thursday	Basketball tournament
Mar. 28-Apr. 3	Wednesday-Tuesday	Spring recess
Apr. 4	Wednesday	Recitations resumed
May 30	Wednesday	Memorial Day
June 4-8	Monday-Friday	Final examinations, second semester
June 8-14	Friday-Thursday	Commencement Week

Commencement Exercises, 1922, will be held on Thursday morning, June 15, at 10 o'clock.

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	GILES F. BELKNAP	Waukesha
	ALBERT S. MAXSON, M. D.,	Milton Junction
	LESTER M. BABCOCK, M. A., D. D. S.,	Milton
	GEORGE E. COON, M. D.,	Milton Junction
	JUSTIN H. BURDICK, M. D.,	Milton

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	JAMES H. COON,	Milton [Mich.
	TRUMAN A. SAUNDERS,	Milton
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	GEORGE W. POST, M. A., M. D.,	Chicago, Ill.
	GEORGE M. ELLIS, M. S.,	Milton

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	FRED C. DUNN,	Riverside, Cal.

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ALBERT WHITFORD, M. A. (Union) Professor Emeritus of Mathematics and Astronomy.

WALTER DAVIS THOMAS, M. A. (Milton) Professor of Greek and History.

ALBERT ROGERS CRANDALL, Sc. D. (Kentucky) Professor Emeritus of Natural History and Physiology.

DAVID NELSON INGLIS, M. A. (Wisconsin) Professor of Romance Languages.

LEMAN HUFFMAN STRINGER, B. A. (Milton) Professor of Public Speaking and Instructor in Voice Culture.

JOHN NORTON DALAND, M. A. (Wisconsin) Professor of Latin.

WILLIAM DIGHTON BURDICK, B. A. (Milton) Professor of Chemistry, and Registrar.

*FRANK GREGORY HALL, M. A. (Wisconsin) Professor of Biology.

CHARLES ADAM MOHR, Ph. D. (Chicago) Professor of Philosophy and Education.

Mrs. ANNA SOPHIA CRANDALL, M. A. (Milton) Instructor in German.

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* On leave of absence.

Miss ALBERTA CRANDALL, Principal of the School of Music, and Instructor in Piano Playing.

Miss MABEL MAXSON, M. A. (Wisconsin) Instructor in English Literature, and Librarian.

Miss ZEA ZINN, B. A. (Milton) Instructor in English, and Matron in Goodrich Hall.

ALVA EDWARD GAREY, M. A. (Wisconsin) Instructor in Political Science and Economics.

GEORGE HERBERT CRANDALL, M. A. (Wisconsin) Instructor in Physical Education, and Coach.

Mrs. ELLEN CRANDALL PLACE, Instructor in Violin Playing.

Mrs. KATHRYN BLISS ROGERS, Instructor in Organ Playing.

ALFRED BURDET CROFOOT, B. S. (Alfred) Instructor in Physics and Mathematics.

Miss AMEY DORIS VAN HORN, B. S. (Alfred) Instructor in Biology.

Miss MABEL FLORENCE ARBUTHNOT, Assistant in Latin.

Miss RUTH MARIBEL BABCOCK, Assistant in English.

HENRY CHASE BLACK, Assistant in Chemistry.

HERBERT PAUL KAKUSKE, Assistant in Mathematics.

GENERAL INFORMATION

Historical Statement

Milton College is situated in the village of Milton, Rock County, Wisconsin, on the Prairie du Chien division of the Chicago, Milwaukee and St. Paul Railway. At Milton Junction, one mile west of Milton, there is also connection with the Chicago and Northwestern Railway.

Milton College is the outgrowth of a select school opened in the village of Milton in the year 1844. In the year 1848 it was incorporated as Du Lac Academy, which in 1854 was reorganized under the name of Milton Academy. In April, 1867, its charter as a college was granted by the state, and the first class was graduated in 1870.

It has always been a co-educational Christian college of liberal culture. Its ideals have been: honest work of the highest character well and thoroughly performed; the encouragement of self-support among its students; a system of government through supervision by the faculty and co-operation by the students, in which personal honor and good will together with loyalty to the high character of the college have been the chief motives.

Although from its earliest history Milton College has had the closest sympathetic relation with the denomination known as Seventh Day Baptists, who have been its main supporters, nevertheless no sectarian tenets are taught in its classes, and students of all religious faiths are received upon equal terms and allowed the free exercise of their beliefs.

Daily chapel exercises are held which students are expected to attend unless they have conscientious scruples against so doing. The college Y. M. C. A. and Y. W. C. A. hold weekly meetings both separately and in conjunction. The religious and moral atmosphere at Milton has always commanded the sympathy and respect of all Christian people who have been at all acquainted with the college.

There have been two presidents of Milton College. Rev. William C. Whitford, who became president of Milton Academy in 1858, continued as president of Milton College from the time of the granting of the college charter in 1867 until his death in 1902. Rev. William C. Daland served from 1902 until his decease in 1921.

Government of the Students.

Students who enter Milton College are expected to observe the rules and regulations that are there recognized as governing the student body. These regulations have grown up during many years and have the force of tradition. Examples of these are: the absolute prohibition of the use of intoxicating liquors, under pain of expulsion; the prohibition of profane and obscene language at all times and in all forms; and the prohibition of card playing, social dancing, and the use of tobacco on the grounds or in the buildings of the college. The college does not attempt to control the ethical practices of individuals in their private relations, but nevertheless it does desire a body of students who can live in comfort without these indulgences. Problems of discipline are not sought. Hence students who feel that these habits are essential for college life are reminded that there are other colleges in plenty where they may go if they wish to indulge in the above practices.

To assist in the regulation of student activities each college class, at the beginning of the year, chooses a class adviser from the members of the faculty. The class adviser represents the faculty in dealing with the class and is the advocate of the class in dealing with the faculty.

In addition to the regular class advisers all students are assigned in groups to the several teachers for advice and counsel. Upper classmen are assigned to the professor under whom they are doing their major work. Students are encouraged and urged to consult their advisers on matters concerning studies and conduct.

All public meetings, entertainments, or social gatherings of the students are held subject to the approval of the President. But to assist in the regulation of the number of public college functions, the President's approval must be obtained before any public meeting is announced or any date set for the same. A bulletin of approved college functions will be posted at the college every Friday morning for the following week.

All social college functions must have chaperons approved by the faculty. The chaperonage of evening or social meetings of college classes is left to the discretion of the class adviser.

General college functions should not be held later than half past ten o'clock.

Students who do not live with parents or guardians and who have occasion to leave the village should obtain permission to do so from the President.

The government of the students is by the Faculty with the President as its executive head making use of the co-operation of the students. It may be called "Faculty government with student co-operation," in contrast with "Student self-government."

The "Honor System," technically so called, is not observed. Faculty supervision is the rule; but personal honor and good will are present in all dealings between teachers and students, who are alike jealous of the honor of Milton College.

The College Year.

The college year, September to June, consists in general of two semesters of seventeen weeks each. There is a vacation of a fortnight at Christmas and a shorter vacation near the end of March. The second semester begins the first week in February. Classes meet on five days of the week only and are held during periods of fifty (50) minutes each, beginning in the morning at 7:55, and continuing until 3:40 in the afternoon. Chapel exercises are held at 9:45 a. m. Examinations are held during the last week of each semester and tests are held at frequent inter-

vals. For the dates of the next college year see the calendar, page 3 of this catalogue.

Admission of Students.

Students are admitted either as regular or special students. Regular students are those fully prepared for entrance and who in college pursue courses leading to the degree of Bachelor of Arts. Such are classified as members of one or another of the four college classes. Special students are either fully prepared students whose studies in college elected by them are not such as to warrant their classification as regular students, or else students who are not fully prepared, but who are completing their preparation in sub-freshman classes, of which some are ordinarily maintained, partly to meet the needs of such students and partly to afford an opportunity for college seniors to obtain practice in teaching, under the supervision of members of the faculty.

A student applying for admission should present himself on one of the days appointed in the calendar for registration. Admission at any other time must be regarded as exceptional. He should present a certificate signed by a proper officer of the school from which he comes. Blanks for this purpose may be obtained at the college office. A student coming from another college should present a record of his work and a certificate of honorable dismissal from the college which he has attended. The best time for transfer is at the end of the sophomore or beginning of the junior year. To be graduated a student should spend at least one year, preferably two, in residence.

Entrance Examinations.

Entrance examinations are not required of graduates of any high school or academy which is on the accredited list of preparatory schools published by the University of Wisconsin. Other students may be called upon to submit to entrance ex-

aminations in part or in all of the subjects offered for entrance. Entrance conditions may be made up in sub-freshman classes.

An entrance examination in English is required of all entering freshmen, no matter from what school they come. Those who fail to pass this examination enter a sub-freshman class in English.

General Fees per Semester

Tuition fee, for those whose work receives credit of more than ten hours per week ---------- $25.00

Tuition fee, for those whose work receives credit of ten hours per week or less ---------- 20.00

Tuition fee, for those whose work is mainly of sub-freshman grade ---------- 20.00

Incidental fee, charged to all students, to cover use of Library, Gymnasium, and so forth ---------- 5.00

Fee for supervision of a study pursued outside of a class ---------- $1.00 to 5.00

Fee for a special examination ---------- 1.00

Fee for physical examination, first semester ---------- .50

Fee for physical examination, second semester ---------- .25

Student Tax, for the support of the Athletic Association, the Oratorical Association, and the Milton College Review, entitling the student to free admission to all regular games, contests, and debates, and to a subscription to the Milton College Review for one semester ---------- 4.00

Rent for locker in Gymnasium ---------- .50

Locker rent is usually collected for the year at the beginning of the first semester. The rent for the second semester is refunded if the key is given up at the end of the first semester. A deposit is required of twenty-five cents for the key to the locker.

Laboratory Fees Per Semester

Biology 1	$4.00
Biology 3 or 4	3.00
Physics B	2.00
Physics 1	4.00
Chemistry 1	4.00
Chemistry 2 or 3	6.00
Chemistry 4	5.00
Chemistry 5	4.00

In addition to the laboratory fees a deposit of two dollars per semester is required for every laboratory course in Chemistry. The amount refunded at the end of the semester is determined by the department of chemistry, and will depend on the materials used, and the care exercised by the student in avoiding breakage of apparatus.

Diploma Fee

A diploma fee of five dollars is charged to every one who receives a degree from the college. This fee is charged to graduates in the second semester of their senior year.

Payment of Fees

All fees are payable in advance.

Before entering classes at the beginning of a semester, students are required to visit the Treasurer of the college and either settle their accounts or make arrangements for the settling of the same. The student tax, at least, must be paid at the time of registration.

Refunding of Bills Paid

Imperative absence of half a semester or more caused by illness or other necessity may be a ground for the refunding of tuition or other fees paid by a student. On proper advice from the faculty the Treasurer will in such a case refund half the amount of the fees except the student tax.

Rooms and Board

Rooms for women in Goodrich Hall are heated by steam and lighted by electricity. The charges are $2.00 a week for one person in a room and $3.00 a week for two persons in a room. Beds and bedding and furniture aside from bedsteads, tables, and chairs, are supplied by the students.

Students may hire convenient rooms in private houses at about the same rate. Rooms and board may be obtained in private families at from $5.00 to $6.00 a week. Table board in club or private family varies from $4.00 to $5.00 a week.

Estimated Expenses per Year

Tuition, Incidentals, and Fees	$ 70.00 to $ 90.00
Board	$150.00 to $216.00
Rooms	$ 40.00 to $ 80.00
Fuel and Lights	$ 20.00 to $ 40.00
Laundry	$ 10.00 to $ 20.00
Text-books, etc.	$ 15.00 to $ 30.00
	$305.00 to $476.00

The minimum expenses for a year of thirty-four weeks to a student who boards himself are about $250.00; to one who boards in a club, about $300.00; to one who boards in a private family, about $360.00. These estimates do not include money for personal necessities or for recreation or cultural wants varying with the taste of the individual student.

Opportunities for Self Support

Industrious students, both men and women, can generally find opportunities in the village and vicinity, during semesters and vacations, to earn sufficient funds to meet in part their expenses. A large number aid themselves in this way every year. Most graduates of the college have been students of limited means who earned their way by manual labor, by teaching in the public schools, or by engaging in other occupations.

Free Scholarships

Milton College offers a free scholarship for one year to the graduate having the highest honors in his class in each high school in the State of Wisconsin that requires a four years' course of study. A free scholarship for one year may also be offered to the graduate having the highest honors in his class in such a high school in a neighboring state as the Board of Trustees may specially designate.

Free scholarships for one year are also offered to the students belonging to the Freshman, Sophomore, and Junior classes, each of whom shall have completed the year with the highest honors.

Certain endowed scholarships have been for a long time established, the beneficiaries of which are appointed by those named by the founders of the scholarships. Students are now the beneficiaries of such scholarships, designated as follows:

The Mary F. Bailey Scholarship.
The Jennie B. Morton Scholarship.
The Ezra Crandall Scholarship.
The Salem College Scholarship.
The Class of 1907 Scholarship.
The Rev. Oscar Babcock Scholarship.
The Rev. Edwin Shaw Scholarship.
The Albertus D. Crumb Scholarship.
The William H. and Mary E. Rich Scholarship.

Recently other endowment scholarships have been established, beneficiaries of which are appointed by the Trustees of the college.

All scholarships cover tuition fees, but not incidental fees, laboratory fees, board, room, or other expenses. Some of the scholarships are awarded only on certain conditions, which will be made known upon application.

Exceptional Tuition Fees

Half the usual tuition fee is charged to a student who is the son or daughter of a minister of religion or to a student who is preparing for the ministry in any religious denomination. Tuition fees are remitted entirely to sons or daughters of members of the faculty. Other fees are charged in these cases.

Buildings

Milton College has five buildings devoted to various purposes. The Main Building contains the offices, the chapel, and many recitation and lecture rooms. The Whitford Memorial Hall contains the Library and the lecture rooms and laboratories for physics, chemistry, and biology. In this building also are rooms for three of the literary societies. The other buildings are Goodrich Hall, the women's dormitory, containing a room for a literary society of the women; the Auditorium-Gymnasium, situated south of the buildings mentioned; and the building formerly the President's home on an eminence further south of the buildings. The studios for instrumental and vocal music now occupy the first floor of this building.

The Library

The College Library is under the general management of the College Librarian, appointed by the Board of Trustees.

The Library now contains more than 11,000 books and 500 pamphlets newly classified and provided with a dictionary card catalogue.

Books or magazines may be borrowed by students and residents of Milton subject to the usual library regulations. The Library is open every college week-day from 8:00 a. m. to 12:00 m., and from 1:00 p. m. to 5:30 p. m., except during the chapel exercises. It is also open to the public on Tuesday and Thursday afternoons during the summer vacation. During the time college is in session the Library is also open on Monday to Thursday evenings, inclusive, from seven till nine o'clock.

Apparatus

The institution is well equipped with apparatus for the student's use in laboratory work in the several courses described under "Departments of Instruction." The Chemical Laboratory in the south half of the second story of the Whitford Memorial Hall is well stocked with everything needful for complete work in General and Analytical Chemistry. The Physical Laboratory is in the south half of the first story. The apparatus of this department has been recently very largely increased and is now full and complete. The Biological department in the second story over the Library is provided with the best Bausch & Lomb microscopes.

Cabinets

The cabinets illustrative of Mineralogy, Geology, and Paleontology, embrace over four thousand specimens, and exhibit fairly the materials and the formations of the rocks found in the state. There has been presented to the college the W. P. Clarke collection of stone and copper instruments, some of which are rare types belonging to the different periods of the Prehistoric Age, found in the immediate vicinity, elsewhere in our country, and in foreign lands. The college has obtained and preserved over eighteen hundred species of plants, which grow principally in this state. There have been gathered specimens of insects, fishes, birds, and mammals, typical of the groups of animals to which they belong; and a room with convenient cases has been set apart for their exhibition and use. Special students of the college share in the collection and classification of type forms in the several departments.

The Literary Societies

These are four in number, the Orophilian Lyceum, the Philomathean Society, the Iduna Lyceum, and the Miltonian Lyceum. The first two are for men and the third and fourth are for women. All of these organizations hold their sessions on Saturday even-

ing during the college year. At the end of each year, during Commencement Week, the societies present public programs. Excellent work has been done by each of these societies during the past year. Every student is urged by the faculty to become a member of some one of these organizations, because exceptional opportunities are offered to those who desire to improve in writing, in public speaking, in debating, and in a knowledge of parliamentary practice.

Christian Associations

The first religious organization of the college was established in 1856 for both men and women and continued so until May, 1907. At that time it was reorganized as a Young Men's Christian Association and a Young Women's Christian Association, both affiliated with the state and national organizations. They are absolutely non-sectarian in their organization and management. They hold three prayer and conference meetings a week during the college year. One of these is held on Friday evening and is open to both men and women. The other two meetings are held on Tuesday evening, one for men and the other for women. The associations usually hold three socials during the year, viz.: one at the beginning of the year, the second near the end of the first semester, and the third just before the spring recess. At these socials music is rendered, papers are read, and addresses are presented. An effort is also made to introduce new students to the older ones, and all are invited to join the associations. The moral and religious influence of these organizations on the student body and on the spirit and life of the institution cannot be overestimated.

Milton College Student Body

During the present year the various student activities, with the exception of the literary societies and the Christian Associations, have combined into an organization known as the "Milton College Student Body." This organization composed

of all the students in the institution through committees and managers has charge of debates, oratorical contests, intercollegiate and intra-mural athletics, as well as the publishing of the "Review" and the "Fides," and the publicity work formerly carried on by the Milton Forward Movement.

This organization of the student body simplifies the whole system of control of student affairs. The Faculty acts as an advisory board to the Student Body.

The Alumni Association

The Alumni Association of Milton College was organized in 1870, and its membership consists of those persons on whom the Institution has conferred honorary degrees, as well as those former students who have been graduated in all the courses of the College and of the old Academy. To this number should be added six distinguished former students who have been elected honorary members of the Association. This organization holds its annual meeting during Commencement Week and at this time a banquet is held. The officers of the Alumni Association for this year are:

President—Dr. L. A. Platts, '03; First Vice-President—George Thorngate, '16; Second Vice-President—Mrs. Lillian Rood Wheeler, '94; Third Vice President—A. Lester Pierce, '21; Fourth Vice-President—Miss Flora E. Zinn, '13; Secretary-Treasurer—Prof. W. D. Burdick, '15; Alumni Member of the Board of Trustees—H. M. Pierce, '15.

Milton College Review

The Milton College Review was formerly a monthly magazine, but is now a weekly newspaper, edited by students under the supervision of the faculty. The price of the paper is $1.50 a year. The cost of maintaining the paper is defrayed by advertisements, subscriptions, and a share of the student tax.

THE COLLEGE COURSE

Entrance Requirements

Every entering freshman must have pursued fifteen (15) units of preparatory work above the eighth grade in school. The term unit means the equivalent of five recitations a week for one year in one branch or closely allied branches of study. These should be as follows:

Mathematics (algebra 1, geometry 1)	2 units
English	3 "
History	1 "
Science	1 "
One foreign language (French, German, Greek, Latin, or Spanish)	2 "
	9 units

Any six units from the following:

Foreign languages	1 to 4 units
English	1 or 2 "
History	1 to 3 "
Civics	½ or 1 "
Economics	½ "
Mathematics	½ to 2 "
Science	1 to 3 "
Agriculture	1 to 4 "
Bookkeeping	1 "
Stenography and Typewriting	1 "
Commercial Law	½ "
Commercial Geography	½ "
Domestic Science	1 to 4 "
Manual Arts	1 to 4 "

Students who offer fifteen units of high school work for entrance but who have no foreign language credit will be admitted to the freshman class conditionally, provided they study during their freshman year a beginner's course in a foreign

language for which two units of entrance credit will be given. No college credit may be given for this work.

A single unit of one language is not regarded as a complete element of a preparatory course. Students should offer not less than two units of any one foreign language.

Not more than four of the required fifteen units will be accepted in vocational subjects, such as agriculture, commercial work, domestic science, and manual training.

On recommendation of the principal of the high school, with his certificate showing that the student has successfully completed the courses required for entrance, graduates of approved high schools will be admitted to the freshman class without examination, except that every student registering for English 1 must submit to a test in English at the first class exercise. This test will determine whether the student is prepared to take the regular course in freshman English. Those who are thus judged poor in English will be advised to take work in sub-freshman English.

Course of Study

A course of study in the college is pursued during four years and includes one hundred and twenty-eight (128) semester hours or credits; one hundred and twenty (120) of these are in class work, four (4) in physical training, and four (4) are covered by the graduating thesis. A semester-hour or college credit is the equivalent of one hour of recitation or lecture per week for one semester. Two or three hours of laboratory work per week usually receive credit as one semester-hour. In the arrangement of his course of study a student should not plan to do less than fourteen (14) or more than seventeen (17) hours a week. No student will be permitted to register for more than eighteen (18) semester-hours in one semester except by permission of the faculty obtained in advance. See under "Restrictions and Special Requirements" page 26.

Grades

The work of students is graded on a scale of one hundred. The passing grade for a single study is seventy (70) per cent. For convenience grades between certain limits are designated by letters. Grade A means excellent work and represents a standing of 93 to 100 per cent; grade B, good work, 85 to 92 per cent; grade C, fair work, 77 to 84 per cent; grade D, poor work, 70 to 76 per cent. Grade D is the passing grade for credit.

But in addition to the requirement of one hundred and twenty-eight semester-hours for a course a candidate for graduation must secure at least one hundred and twenty-eight grade points. The grade points are awarded as follows:

For grade A, three points for each semester-hour.

For grade B, two points for each semester-hour.

For grade C, one point for each semester-hour.

For grade D, credit but no points.

The maximum number of points that can be secured in a course is 384; the minimum must be 128. It is evident that an average grade of C is required for graduation. A student who falls behind in the required number of points is ineligible for graduation. Hence while seventy per cent is the passing grade for a single study, the average passing grade for the whole course is seventy-seven (77) per cent.

Required Work

Of the one hundred and twenty semester-hours of class work, sixty-four (64) semester-hours must be taken in certain subjects that are required of all candidates for a degree. These are known as required subjects. The remaining fifty-six (56) semester-hours are elective. The required work is as follows:

English	6	semester-hours	
Public Speaking	4	"	"
Mathematics	6	"	"
Language	16	"	"
History	6	"	"
Science	10	"	"
Psychology and allied Studies*	16	"	"
Total Required Work	64	"	"

The above requirement of sixteen semester hours in language is the minimum requirement for those who offer four units of foreign languages for entrance. Those who offer two units of a foreign language will be required to take at least twenty-four semester hours in language study.

Those who wish to prepare for teaching must also take in the department of Education at least nine (9) semester-hours, of which at least two (2) must be practical work in teaching or teaching combined with class work in methods of teaching, usually their major subject. For an explanation of what is meant by a major subject see under "Elective Work," page 24.

Elective Work

By the statement that fifty-six semester-hours of the class work of the college course are elective is not meant that studies may be freely chosen without plan or system. The studies in college may be roughly divided into three groups as follows:

I. Language and Literature.

II. History, Social Science and Philosophy.

III. Natural Science and Mathematics.

---

*These are enumerated under the department of Philosophy. See under "Departments of Instruction," page 35.

At the beginning of the sophomore year, a candidate for a baccalaureate degree must, with the advice of the President, choose a major subject from one of the above groups and a minor subject from another department of the same group; provided, however, that a suitable language may be chosen as a minor subject in connection with any major and that mathematics may be chosen as a major subject in connection with a minor in either group I. or group II.

The work in a student's major subject must be consistently and consecutively pursued under the direction of the professor in charge of the department. In his major subject the student is required to do not less than sixteen (16) nor more than thirty-six (36) semester-hours exclusive of the thesis. Of these six (6) semester-hours should be completed before the junior year. The thesis is usually prepared in the senior year and must be a creditable piece of scholarly work in the major subject.

What may be counted as part of the major work is determined by the department in question, but certain studies cannot be counted; as German B, Latin A and B, English 1, and Mathematics 1 and 2. See "Departments of Instruction."

The minor subject is a related subject and one which when pursued is of benefit to the student in the consistent study of his major subject. It may be determined by the professor in charge of the major work. Usually ten (10) semester-hours should be taken in the minor subject.

Required subjects other than those excluded above may, at the discretion of the department, be counted as part of either the major or minor work.

Examples of subjects often chosen as major subjects are English, Latin, German, mathematics, biology, chemistry, and so forth. Rarely, by direction of a department, two subjects may be combined for major work; as, for example chemistry and physics.

Arrangement of Courses

The following table will serve to illustrate how the re-

quired and elective work may be combined in a course of study for four years:

Freshman year

English 3 hours per week	6 sem. hrs.
Mathematics 3 hours per week	6 sem. hrs.
Language 4 hours per week	8 sem. hrs.
Science usually 8 hours per week	10 sem. hrs.
Physical Training 3 hours per week	2 sem. hrs.
	32 sem. hrs.

Sophomore year

History 3 hours per week	6 sem. hrs.
Psychology 3 hours per week	6 sem. hrs.
Language 4 hours per week	8 sem. hrs.
Public Speaking 2 hours per week	4 sem. hrs.
Physical Training 3 hours per week	2 sem. hrs.
Elective	6 sem. hrs.
	32 sem. hrs.

Junior year

Logic and Philosophy 3 hours per week	6 sem. hrs.
*Education 3 hours per week	6 sem. hrs.
Elective	20 sem. hrs.
	32 sem. hrs.

Senior year

Ethics 2 hours per week	4 sem. hrs.
*Education 3 hours per week	6 sem. hrs.
Elective	18 sem. hrs.
Thesis, given credit always as	4 sem. hrs.
	32 sem. hrs.

*Required of those who wish to teach. Other students take more electives.

The foregoing table is intended to serve as a practical guide to the student in arranging his work. A student making his major in language may well take his two required languages in the freshman year and defer his required science till the sophomore year. The required work in language should all be completed, if possible, before the junior year. It should never be postponed till the senior year. Those who enter with insufficient preparation in language should exercise especial care in the arrangement of their work. Such must heed advice given to them when registering for their studies.

Restrictions and Special Requirements

After a student's studies are registered at the office no change in these will be allowed without permission of the President of the college.

Permission to register for more than eighteen semester-hours in the same semester will not be granted in any year to a student whose average standing during the preceding year has not reached ninety per cent.

A student who offers at least four units of foreign language for entrance will be required to study two languages in college, each for one year, four hours a week, for which he will receive sixteen semester hours' credit. One of the two languages must be a continuation of one offered for entrance. A student who offers three units of language for entrance must take twenty semester hours in his college course, and one who offers two units must take twenty-four semester hours of language. A student who enters college with no foreign language must take at least thirty-four semester hours, ten hours of which will be without credit. Sixteen of the thirty-four hours must be in one language. With care any student can take this extra work and finish his college course in four years.

Absences

Every student is expected to attend classes regularly without incuring any unnecessary absences. Should he be absent

for any reason he is required to speak to his instructor either before the absence or at the next regular meeting of the class after his absence and receive his assignment of work to make up in lieu of his absence. This work must be handed in within 5 days of the absence. The mark given for this make-up work will be his mark for the day he was absent. A failure to report to the instructor after an absence is a grave breach of good order and will constitute grounds for discipline. At the discretion of any teacher three cases of tardiness may be counted as an absence, and special work must be assigned as in an ordinary absence. Absence on the first day of the semester, the last day before a recess, or the first day after a recess shall be counted as two cuts.

Absences are of two kinds, excused and unexcused. All absences caused by the requirements of any official college activity are automatically excused. Application for the excuse will be made by the member of the faculty whose work caused the absence. For all other excuses the student must interview one of the members of the faculty committee on absences. This must be done before Friday noon of each week for all absences of that week. All such applications will be considered at a full meeting of the Committee on Friday afternoon. Excuses will be granted only for very important reasons. The committee will notify the instructor as well as the student if the excuse is granted.

Every instructor will report his absences to the committee at the close of each day. A complete record of absences, excused and unexcused, will be kept in the office.

For each unexcused absence the final standing of the student at the end of the semster will be lowered by a per cent equal to ten divided by the number of hours per week of the subject. It is expected that a number of absences equal to double the number of hours per week in the subject will cause a B student to be conditioned. It should be noted that this penalty will also reduce the student's grade points.

Chapel Attendance

Attendance at chapel is required with an allowance of ten cuts a semester. Each cut in excess of ten automatically adds one-tenth of a semester-hour to the requirements of the student's college course. Individual cases of non-attendance at chapel on religious or other grounds will be dealt with separately by the faculty.

Examinations

College seniors whose class standings are above ninety per cent during the second semester may be excused from taking final examinations in June.

A student whose final standing in any study is sixty-five per cent or more, but below the passing grade, is conditioned in that study and may at an appointed time within a year take an examination to remove the condition.

Degrees

All graduates from Milton College receive the degree of Bachelor of Arts.

Orations

Each student in the sophomore and junior year is required to produce an oration. These orations must be finished and handed to the Professor of Public Speaking before the Christmas recess. They must be delivered either in the annual contest of the Oratorical Association of the college, or in one of the preliminary contests, or in some public exercise arranged by the faculty and held on a date earlier than that of the annual contest.

Theses

Theses must be typewritten and furnished for the college library by the Friday before Commencement. Diplomas will be withheld from students that fail to comply with this requirement.

State Teachers' Certificates

The state department of public instruction will issue certificates to graduates of Milton College provided they have satisfactorily pursued the following subjects: psychology, three semester hours; education, nine semester hours.

On blanks furnished by the state superintendent, the student sends to the state department a statement of his work which is signed by the registrar and an application for a special license to teach for one year in any public school in Wisconsin. This license is renewable for a second year after a year of successful teaching. At the end of two years of successful teaching, the teacher receives an Unlimited State Certificate.

DEPARTMENTS OF INSTRUCTION

English

1 Freshman English.

Lectures on English composition and the study of selected classics of English literature. Exercises in paragraph and theme writing, directed toward the formation of an effective prose style. Text-book: Woolley's *Handbook of Composition.* Required of all college students in the Freshman year. *Three hours a week throughout the year.*

Note—The work in this course consists of the following parts:

a) Class exercises or lectures three times a week.

b) Short themes based on exercises in Lewis's *Specimens of the Forms of Discourse* twice a week.

c) Weekly translations from a foreign language.

d) Occasional longer themes based on the required readings.

e) Required readings: (1) Two books of general reading and two standard novels, (2) Winchester's ***Principles of Literary Criticism***, (3) Matthew Arnold's ***Essays in Criticism***, selected.

2 Sophomore Composition.

Narrative composition. During the recitation hour the class pursues the study of the American short story. Compositions are required weekly or fortnightly. Elective. *Two hours a week throughout the year.*

3 a Elementary Anglo-Saxon.*

An elementary course with a view to the mastery of the grammar and the reading of normalized West Saxon prose, especial attention being given to the derivation of words. Text-book, Cook's *First Book in Old English. Two hours a week in the first semester.*

*Courses 3 to 9 have special reference to the history and development of the English language. Course 3a is required in the sophomore year of those choosing English as a major. It is advised that English students pursue consecutively either courses 3a, 3b, 4, 5, and 6 or 3a, 7, 8, and 9. The most of these are two-hour classes and they may easily be pursued in connection with other work.

3 b Anglo-Saxon Prose.

Further study of Anglo-Saxon, especially of difficult forms and syntax. Extensive reading of prose selections. Text-book, Bright's *Anglo-Saxon Reader.* Continuation of course 3a. *Two hours a week in the second semester.*

4 Anglo-Saxon Poetry.

Poetical selections in Cook and Bright, supplemented by other texts according to the ability of the class. *Two hours a week throughout the year.*

5 Anglo-Saxon Dialects.

A study of the Northumbrian, Mercian, and Kentish dialects, with many of the most ancient remains of heroic poetry. Text-books: Kluge's *Angelsächsisches Lesebuch*, Sievers' *Angelsächsische Grammatik*, and Sweet's *Student's Dictionary of Anglo-Saxon*, with references to Kluge's *Geschichte der englischen Sprache.* Open to senior students in Anglo-Saxon. *Three hours a week in the first semester.*

6 Beowulf.

Study of the Anglo-Saxon text with reference to early Germanic life and customs. Text-book, Wyatt's *Beowulf*, with references to other works. Open to senior students in Anglo-Saxon. *Three hours a week in either semester, as classes may be arranged.*

7 Early Middle English.

A. D. 1066-1300. Homilies, *Later Saxon Chronicle*, and prose selections in the Midland dialect; *The Ormulum, Havelok the Dane*, and poetical selections in the Midland dialect; *The Ancren Riwle* and prose selections in the Southern dialect; poetical selections in the Southern dialect, Layamon's *Brut, The Owl and the Nightingale* and *King Horn.* The Midland dialect is made the basis of grammatical instruction, and especial attention is given to Danish and Norman influences. Text-book: Emerson's *Middle English Reader*, with supplementary texts. Open to those who have taken course 3a. *Two hours a week in the second semester.*

8 Later Middle English.

A. D. 1298-1400. Sir John Mandeville, Wiclif, John of Trevisa, Dan Michel of Northgate *(Ayenbite of Inwyt)*, Robert of Gloucester, *Handlying Synne*, Lawrence Minot, *Cursor Mundi*, Barbour *(The Bruce)*, Langland, Gower, and Chaucer, with a closer study of dialects, including the Northern dialect. Text-books as in course 7. Open to those who have taken courses 3a and 7. *Two hours a week in the first semester.*

9 Transition and Tudor English.

A. D. 1400-1579. Occleve, Lydgate, James I. of Scotland, Ballads, Dunbar, Douglas, Mallory, More, Tyndale, Ascham, Berners, etc., to Spenser. Text-book, Skeat's *Specimens of English Literature*, 1349-1579. Open to those who have taken course 3a. *Two hours a week in one semester.*

10 College Literature.

A general survey of English literature Textbooks: *Century Readings for a course in English Literature*, edited by J. W. Cunliffe, J. F. A. Pyre, and Karl Young, and *Century Outlines for a course in English Literature*, compiled by F. A. Pyre, T. H. Dickinson, and Karl Young. *Three hours a week throughout the year.*

11 Shakespeare.

The following plays are studied: First Semester: *Love's Labour's Lost, Henry V., The Tempest, Midsummer Night's Dream, Romeo and Juliet, The Merchant of Venice, As You Like It.* Second Semester: *Twelfth Night, Hamlet, Othello, Macbeth. Antony and Cleopatra, Coriolanus, A Winter's Tale.* Text-book, *Shakespeare's Principal Plays*, edited by Brooke, Cunliffe, and MacCracken. *Three hours a week throughout the year.*

12 a Browning.

A careful study of the poet's life, followed by the reading and interpretation of the most important of his poetical works. Text-book, The Globe Edition of Browning's works. *Two hours a week in the first semester.*

Apparatus

The institution is well equipped with apparatus for the student's use in laboratory work in the several courses described under "Departments of Instruction." The Chemical Laboratory in the south half of the second story of the Whitford Memorial Hall is well stocked with everything needful for complete work in General and Analytical Chemistry. The Physical Laboratory is in the south half of the first story. The apparatus of this department has been recently very largely increased and is now full and complete. The Biological department in the second story over the Library is provided with the best Bausch & Lomb microscopes.

Cabinets

The cabinets illustrative of Mineralogy, Geology, and Paleontology, embrace over four thousand specimens, and exhibit fairly the materials and the formations of the rocks found in the state. There has been presented to the college the W. P. Clarke collection of stone and copper instruments, some of which are rare types belonging to the different periods of the Prehistoric Age, found in the immediate vicinity, elsewhere in our country, and in foreign lands. The college has obtained and preserved over eighteen hundred species of plants, which grow principally in this state. There have been gathered specimens of insects, fishes, birds, and mammals, typical of the groups of animals to which they belong; and a room with convenient cases has been set apart for their exhibition and use. Special students of the college share in the collection and classification of type forms in the several departments.

The Literary Societies

These are four in number, the Orophilian Lyceum, the Philomathean Society, the Iduna Lyceum, and the Miltonian Lyceum. The first two are for men and the third and fourth are for women. All of these organizations hold their sessions on Saturday even-

ing during the college year. At the end of each year, during Commencement Week, the societies present public programs. Excellent work has been done by each of these societies during the past year. Every student is urged by the faculty to become a member of some one of these organizations, because exceptional opportunities are offered to those who desire to improve in writing, in public speaking, in debating, and in a knowledge of parliamentary practice.

Christian Associations

The first religious organization of the college was established in 1856 for both men and women and continued so until May, 1907. At that time it was reorganized as a Young Men's Christian Association and a Young Women's Christian Association, both affiliated with the state and national organizations. They are absolutely non-sectarian in their organization and management. They hold three prayer and conference meetings a week during the college year. One of these is held on Friday evening and is open to both men and women. The other two meetings are held on Tuesday evening, one for men and the other for women. The associations usually hold three socials during the year, viz.: one at the beginning of the year, the second near the end of the first semester, and the third just before the spring recess. At these socials music is rendered, papers are read, and addresses are presented. An effort is also made to introduce new students to the older ones, and all are invited to join the associations. The moral and religious influence of these organizations on the student body and on the spirit and life of the institution cannot be overestimated.

Milton College Student Body

During the present year the various student activities, with the exception of the literary societies and the Christian Associations, have combined into an organization known as the "Milton College Student Body." This organization composed

of all the students in the institution through committees and managers has charge of debates, oratorical contests, intercollegiate and intra-mural athletics, as well as the publishing of the "Review" and the "Fides," and the publicity work formerly carried on by the Milton Forward Movement.

This organization of the student body simplifies the whole system of control of student affairs. The Faculty acts as an advisory board to the Student Body.

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Mathematics (algebra 1, geometry 1)	2 units
English	3 "
History	1 "
Science	1 "
One foreign language (French, German, Greek, Latin, or Spanish)	2 "
	9 units

Any six units from the following:

Foreign languages	1 to 4 units
English	1 or 2 "
History	1 to 3 "
Civics	½ or 1 "
Economics	½ "
Mathematics	½ to 2 "
Science	1 to 3 "
Agriculture	1 to 4 "
Bookkeeping	1 "
Stenography and Typewriting	1 "
Commercial Law	½ "
Commercial Geography	½ "
Domestic Science	1 to 4 "
Manual Arts	1 to 4 "

Students who offer fifteen units of high school work for entrance but who have no foreign language credit will be admitted to the freshman class conditionally, provided they study during their freshman year a beginner's course in a foreign

language for which two units of entrance credit will be given. No college credit may be given for this work.

A single unit of one language is not regarded as a complete element of a preparatory course. Students should offer not less than two units of any one foreign language.

Not more than four of the required fifteen units will be accepted in vocational subjects, such as agriculture, commercial work, domestic science, and manual training.

On recommendation of the principal of the high school, with his certificate showing that the student has successfully completed the courses required for entrance, graduates of approved high schools will be admitted to the freshman class without examination, except that every student registering for English 1 must submit to a test in English at the first class exercise. This test will determine whether the student is prepared to take the regular course in freshman English. Those who are thus judged poor in English will be advised to take work in sub-freshman English.

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The work of students is graded on a scale of one hundred. The passing grade for a single study is seventy (70) per cent. For convenience grades between certain limits are designated by letters. Grade A means excellent work and represents a standing of 93 to 100 per cent; grade B, good work, 85 to 92 per cent; grade C, fair work, 77 to 84 per cent; grade D, poor work, 70 to 76 per cent. Grade D is the passing grade for credit.

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English	6	semester-hours	
Public Speaking	4	"	"
Mathematics	6	"	"
Language	16	"	"
History	6	"	"
Science	10	"	"
Psychology and allied Studies*	16	"	"
Total Required Work	64	"	"

The above requirement of sixteen semester hours in language is the minimum requirement for those who offer four units of foreign languages for entrance. Those who offer two units of a foreign language will be required to take at least twenty-four semester hours in language study.

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I. Language and Literature.

II. History, Social Science and Philosophy.

III. Natural Science and Mathematics.

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*These are enumerated under the department of Philosophy. See under "Departments of Instruction," page 35.

At the beginning of the sophomore year, a candidate for a baccalaureate degree must, with the advice of the President, choose a major subject from one of the above groups and a minor subject from another department of the same group; provided, however, that a suitable language may be chosen as a minor subject in connection with any major and that mathematics may be chosen as a major subject in connection with a minor in either group I. or group II.

The work in a student's major subject must be consistently and consecutively pursued under the direction of the professor in charge of the department. In his major subject the student is required to do not less than sixteen (16) nor more than thirty-six (36) semester-hours exclusive of the thesis. Of these six (6) semester-hours should be completed before the junior year. The thesis is usually prepared in the senior year and must be a creditable piece of scholarly work in the major subject.

What may be counted as part of the major work is determined by the department in question, but certain studies cannot be counted; as German B, Latin A and B, English 1, and Mathematics 1 and 2. See "Departments of Instruction."

The minor subject is a related subject and one which when pursued is of benefit to the student in the consistent study of his major subject. It may be determined by the professor in charge of the major work. Usually ten (10) semester-hours should be taken in the minor subject.

Required subjects other than those excluded above may, at the discretion of the department, be counted as part of either the major or minor work.

Examples of subjects often chosen as major subjects are English, Latin, German, mathematics, biology, chemistry, and so forth. Rarely, by direction of a department, two subjects may be combined for major work; as, for example chemistry and physics.

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Language 4 hours per week	8 sem. hrs.
Public Speaking 2 hours per week	4 sem. hrs.
Physical Training 3 hours per week	2 sem. hrs.
Elective	6 sem. hrs.
	32 sem. hrs.

Junior year

Logic and Philosophy 3 hours per week	6 sem. hrs.
*Education 3 hours per week	6 sem. hrs.
Elective	20 sem. hrs.
	32 sem. hrs.

Senior year

Ethics 2 hours per week	4 sem. hrs.
*Education 3 hours per week	6 sem. hrs.
Elective	18 sem. hrs.
Thesis, given credit always as	4 sem. hrs.
	32 sem. hrs.

*Required of those who wish to teach. Other students take more electives.

The foregoing table is intended to serve as a practical guide to the student in arranging his work. A student making his major in language may well take his two required languages in the freshman year and defer his required science till the sophomore year. The required work in language should all be completed, if possible, before the junior year. It should never be postponed till the senior year. Those who enter with insufficient preparation in language should exercise especial care in the arrangement of their work. Such must heed advice given to them when registering for their studies.

Restrictions and Special Requirements

After a student's studies are registered at the office no change in these will be allowed without permission of the President of the college.

Permission to register for more than eighteen semester-hours in the same semester will not be granted in any year to a student whose average standing during the preceding year has not reached ninety per cent.

A student who offers at least four units of foreign language for entrance will be required to study two languages in college, each for one year, four hours a week, for which he will receive sixteen semester hours' credit. One of the two languages must be a continuation of one offered for entrance. A student who offers three units of language for entrance must take twenty semester hours in his college course, and one who offers two units must take twenty-four semester hours of language. A student who enters college with no foreign language must take at least thirty-four semester hours, ten hours of which will be without credit. Sixteen of the thirty-four hours must be in one language. With care any student can take this extra work and finish his college course in four years.

Absences

Every student is expected to attend classes regularly without incuring any unnecessary absences. Should he be absent

for any reason he is required to speak to his instructor either before the absence or at the next regular meeting of the class after his absence and receive his assignment of work to make up in lieu of his absence. This work must be handed in within 5 days of the absence. The mark given for this make-up work will be his mark for the day he was absent. A failure to report to the instructor after an absence is a grave breach of good order and will constitute grounds for discipline. At the discretion of any teacher three cases of tardiness may be counted as an absence, and special work must be assigned as in an ordinary absence. Absence on the first day of the semester, the last day before a recess, or the first day after a recess shall be counted as two cuts.

Absences are of two kinds, excused and unexcused. All absences caused by the requirements of any official college activity are automatically excused. Application for the excuse will be made by the member of the faculty whose work caused the absence. For all other excuses the student must interview one of the members of the faculty committee on absences. This must be done before Friday noon of each week for all absences of that week. All such applications will be considered at a full meeting of the Committee on Friday afternoon. Excuses will be granted only for very important reasons. The committee will notify the instructor as well as the student if the excuse is granted.

Every instructor will report his absences to the committee at the close of each day. A complete record of absences, excused and unexcused, will be kept in the office.

For each unexcused absence the final standing of the student at the end of the semster will be lowered by a per cent equal to ten divided by the number of hours per week of the subject. It is expected that a number of absences equal to double the number of hours per week in the subject will cause a B student to be conditioned. It should be noted that this penalty will also reduce the student's grade points.

Chapel Attendance

Attendance at chapel is required with an allowance of ten cuts a semester. Each cut in excess of ten automatically adds one-tenth of a semester-hour to the requirements of the student's college course. Individual cases of non-attendance at chapel on religious or other grounds will be dealt with separately by the faculty.

Examinations

College seniors whose class standings are above ninety per cent during the second semester may be excused from taking final examinations in June.

A student whose final standing in any study is sixty-five per cent or more, but below the passing grade, is conditioned in that study and may at an appointed time within a year take an examination to remove the condition.

Degrees

All graduates from Milton College receive the degree of Bachelor of Arts.

Orations

Each student in the sophomore and junior year is required to produce an oration. These orations must be finished and handed to the Professor of Public Speaking before the Christmas recess. They must be delivered either in the annual contest of the Oratorical Association of the college, or in one of the preliminary contests, or in some public exercise arranged by the faculty and held on a date earlier than that of the annual contest.

Theses

Theses must be typewritten and furnished for the college library by the Friday before Commencement. Diplomas will be withheld from students that fail to comply with this requirement.

State Teachers' Certificates

The state department of public instruction will issue certificates to graduates of Milton College provided they have satisfactorily pursued the following subjects: psychology, three semester hours; education, nine semester hours.

On blanks furnished by the state superintendent, the student sends to the state department a statement of his work which is signed by the registrar and an application for a special license to teach for one year in any public school in Wisconsin. This license is renewable for a second year after a year of successful teaching. At the end of two years of successful teaching, the teacher receives an Unlimited State Certificate.

DEPARTMENTS OF INSTRUCTION

English

1 Freshman English.

Lectures on English composition and the study of selected classics of English literature. Exercises in paragraph and theme writing, directed toward the formation of an effective prose style. Text-book: Woolley's *Handbook of Composition.* Required of all college students in the Freshman year. *Three hours a week throughout the year.*

Note—The work in this course consists of the following parts:

a) Class exercises or lectures three times a week.

b) Short themes based on exercises in Lewis's *Specimens of the Forms of Discourse* twice a week.

c) Weekly translations from a foreign language.

d) Occasional longer themes based on the required readings.

e) Required readings: (1) Two books of general reading and two standard novels, (2) Winchester's ***Principles of Literary Criticism***, (3) Matthew Arnold's ***Essays in Criticism***, selected.

2 Sophomore Composition.

Narrative composition. During the recitation hour the class pursues the study of the American short story. Compositions are required weekly or fortnightly. Elective. *Two hours a week throughout the year.*

3 a Elementary Anglo-Saxon.*

An elementary course with a view to the mastery of the grammar and the reading of normalized West Saxon prose, especial attention being given to the derivation of words. Text-book, Cook's *First Book in Old English. Two hours a week in the first semester.*

*Courses 3 to 9 have special reference to the history and development of the English language. Course 3a is required in the sophomore year of those choosing English as a major. It is advised that English students pursue consecutively either courses 3a, 3b, 4, 5, and 6 or 3a, 7, 8, and 9. The most of these are two-hour classes and they may easily be pursued in connection with other work.

3 b Anglo-Saxon Prose.

Further study of Anglo-Saxon, especially of difficult forms and syntax. Extensive reading of prose selections. Text-book, Bright's *Anglo-Saxon Reader.* Continuation of course 3a. *Two hours a week in the second semester.*

4 Anglo-Saxon Poetry.

Poetical selections in Cook and Bright, supplemented by other texts according to the ability of the class. *Two hours a week throughout the year.*

5 Anglo-Saxon Dialects.

A study of the Northumbrian, Mercian, and Kentish dialects, with many of the most ancient remains of heroic poetry. Text-books: Kluge's *Angelsächsisches Lesebuch*, Sievers' *Angelsächsische Grammatik*, and Sweet's *Student's Dictionary of Anglo-Saxon*, with references to Kluge's *Geschichte der englischen Sprache.* Open to senior students in Anglo-Saxon. *Three hours a week in the first semester.*

6 Beowulf.

Study of the Anglo-Saxon text with reference to early Germanic life and customs. Text-book, Wyatt's *Beowulf*, with references to other works. Open to senior students in Anglo-Saxon. *Three hours a week in either semester, as classes may be arranged.*

7 Early Middle English.

A. D. 1066-1300. Homilies, *Later Saxon Chronicle,* and prose selections in the Midland dialect; *The Ormulum, Havelok the Dane,* and poetical selections in the Midland dialect; *The Ancren Riwle* and prose selections in the Southern dialect; poetical selections in the Southern dialect, Layamon's *Brut, The Owl and the Nightingale* and *King Horn.* The Midland dialect is made the basis of grammatical instruction, and especial attention is given to Danish and Norman influences. Text-book: Emerson's *Middle English Reader,* with supplementary texts. Open to those who have taken course 3a. *Two hours a week in the second semester.*

8 Later Middle English.

A. D. 1298-1400. Sir John Mandeville, Wiclif, John of Trevisa, Dan Michel of Northgate *(Ayenbite of Inwyt)*, Robert of Gloucester, *Handlying Synne*, Lawrence Minot, *Cursor Mundi*, Barbour *(The Bruce)*, Langland, Gower, and Chaucer, with a closer study of dialects, including the Northern dialect. Textbooks as in course 7. Open to those who have taken courses 3a and 7. *Two hours a week in the first semester.*

9 Transition and Tudor English.

A. D. 1400-1579. Occleve, Lydgate, James I. of Scotland, Ballads, Dunbar, Douglas, Mallory, More, Tyndale, Ascham, Berners, etc., to Spenser. Text-book, Skeat's *Specimens of English Literature*, 1349-1579. Open to those who have taken course 3a. *Two hours a week in one semester.*

10 College Literature.

A general survey of English literature Textbooks: *Century Readings for a course in English Literature*, edited by J. W. Cunliffe, J. F. A. Pyre, and Karl Young, and *Century Outlines for a course in English Literature*, compiled by F. A. Pyre, T. H. Dickinson, and Karl Young. *Three hours a week throughout the year.*

11 Shakespeare.

The following plays are studied: First Semester: *Love's Labour's Lost, Henry V., The Tempest, Midsummer Night's Dream, Romeo and Juliet, The Merchant of Venice, As You Like It.* Second Semester: *Twelfth Night, Hamlet, Othello, Macbeth. Antony and Cleopatra, Coriolanus, A Winter's Tale.* Text-book, *Shakespeare's Principal Plays*, edited by Brooke, Cunliffe, and MacCracken. *Three hours a week throughout the year.*

12 a Browning.

A careful study of the poet's life, followed by the reading and interpretation of the most important of his poetical works. Textbook, The Globe Edition of Browning's works. *Two hours a week in the first semester.*

2. Advanced Public Speaking.

Open to those who have had Public Speaking 1. No textbook required. This is a course in debating and the study of speeches by famous orators. *Two hours a week throughout the year.*

3 Course in Dramatic Reading.

Study of dramatic selections from Shakespeare and other standard authors. *Two hours a week throughout the year.*

PHYSICAL EDUCATION

The aim of the department of Physical Education is to provide some form of physical activity for each student, teach the proper habits of healthful living and develop the qualities of sportsmanship and leadership. A spacious and well equipped gymnasium is available to both men and women for all indoor activities, while the campus and the village park provide facilities for outdoor athletics. Regular gymnasium work is required of all Freshmen and Sophomores. As the general tuition charge includes an amount apportioned to athletics, all students are admitted free to home intercollegiate contests played by the college teams. Courses 1 and 2 are required for graduation.

Physical Examinations

A physical examination is required of each student at the beginning of each semester and at the close of the school year. When necessary, corrective exercises are prescribed by the examining physician and carried out under the supervision of the Director. Records of the examinations are kept, and the progress of the student noted.

Intercollegiate Athletics

Milton College maintains teams in football, basketball, baseball, track and tennis, for competition against other schools.

A student must have a passing grade in at least 12 hours work in order to represent the College in any intercollegiate contest.

Intramural Athletics

Class teams are formed for men in basketball, indoor and outdoor track and tennis and for women in indoor and outdoor track and tennis. Teams are also organized among the women for volley ball and indoor baseball. Cross-country hikes are taken weekly during favorable weather by the women of the Hikers' Club, which requires a minimum of 100 miles for the year. Cross-country running for men accompanies football in the fall.

COURSES

1. **Physical Training for Men.**

Required of all freshmen and sophomore men. Systematic and progressive training in marching tactics, exercises with and without apparatus and on heavy apparatus. Volley ball, basketball, indoor baseball, and other gymnastic games. Mass instruction in football, basketball, baseball and track. *One hour a day, three days a week throughout the year.* Two credits.

An annual Gymnastic Exhibition and Contest is held early in the second semester, in which both the men's and women's classes exhibit their work before the public, awards being given for skillful performance.

2. **Physical Training for Women.**

Required of all freshmen and sophomore women. Selected exercises with and without apparatus and on heavy apparatus for developing correct posture, graceful carriage, organic vigor, and neuro-muscular skill. Volley ball, basketball, indoor baseball, and other gymnastic games, with outdoor work when the weather permits. *One hour a day, three days a week throughout the year.* Two credits.

The women's Physical Training class takes part in the annual Gymnastic Exhibition and Contest held early in the second semester.

5. Health and Hygiene.

Lectures on health habits; cause and prevention of disease; sanitation; personal, domestic, public and school hygiene. Open to men and women. *Three hours a week in the first semester.* Three credits.

6. Coaching, Theory and Practice.

Lectures and discussions on different methods of coaching the major sports with practice coaching in each sport. Organization and administration of athletics. This course meets the needs of those who intend to coach high school athletics. Open only to men of the junior and senior classes. Not given in 1922-1923. *Three hours a week in the second semester.* Three credits.

SCHOOL OF MUSIC

Work in music has always been a prominent element in Milton College. It has been carried on under the title, "School of Music," and all courses when completed are certified under that name.

The principal courses in music are the following: Voice Culture, Harmony, Pianoforte, and Violin.

Two years' study of Harmony, one year of the Theory of Music, and one year of History of Music are required in the Pianoforte, Voice Culture and stringed instrument courses; and at least the first two grades of one of the instrumental courses is a prerequisite of the completion of the Harmony and Voice Culture courses.

Pupils having completed any one of the above courses and having completed a high school course, or its equivalent, are entitled to a certificate of graduation in such course.

Credit Given Toward a Baccalaureate Degree

A student who is taking a regular college course may have his work in music count for credit toward a baccalaureate degree under the following conditions:

1. Total maximum credit to be twenty semester hours.
2. Maximum credit for theoretical work to be ten semester hours.
3. Maximum credit for practical or "applied music" to be ten semester hours.
4. Credit for theoretical work (harmony, history of music, theory of music, etc.) to be estimated as one semester-hour per semester.
5. Credit for applied music to be as follows: Organ, Piano, Voice, Violin, etc., not to exceed two semester-hours per semester, in one subject, i. e., one year's work to be not more than four semester hours.

6. It shall be understood that elementary applied work, i. e., the first two years of piano work or work of a similar grade receives no credit.

7. It shall be understood that no credit is to be given for applied work during the freshman year, except to especially advanced pupils.

8. Credit may be given for work in the Glee Club, Treble Clef, Choral Union, Band, and Orchestra at the rate of one semester-hour for two years' faithful and satisfactory attendance at rehearsals, not more than one rehearsal in ten being missed. In this connection, it is understood that credit for work in the Glee Club, Treble Clef, and Choral Union will not be given to those who have not completed the work in the elementary singing class or its equivalent.

PIANOFORTE COURSE

Miss Alberta Crandall

The instruction in pianoforte playing is in six grades extending over a period of six or more years on a basis of two lessons per week.

A correct hand position and a flexible wrist are insisted on from the first as requisites for proficiency. Exercises from Mason's *Touch and Technic*, Stasny's *Finger Training*, and other aids, are used for the acquirement of correct finger, hand, and arm touches.

The technical exercises used in the intermediate grades include studies from Czerney, Heller, Cramer, Kullak's *Octaves, Books I. and II.*, Krause's *Trill and Other Studies*, Sonatinas from Kuhlau or Clementi, and Bach's *Two and Three Part Inventions.*

Pieces suited to the different grades are used, including selections from Schumann, Mendelssohn, Mozart, Raff, Beethoven, Schubert, Chopin and modern composers.

VOICE CULTURE

Mr. Leman H. Stringer

In this course an honest effort is made to teach the principles that lead to artistic singing.

A careful study is made of breath control, tone placing, relaxation of the throat muscles, ear training, the power of the mind over the vocal instrument, and the production of beautiful tone; also of interpretation which includes such subjects as diction, reading, technic, phrasing and mood.

Careful attention is given to the study and development of the head voice.

Studies used are, *Systematic Voice Training* by D. A. Clippinger, Concone Op. 9, songs by best composers and solos from cantatas and oratorios.

Elementary Vocal Music

The rudiments of music, notation, solmization, sight-reading and elementary and chorus singing are included in this course. It is preparatory to the Voice Culture course and it is a desirable adjunct to all the other courses. The time required for its completion is usually two years for persons of ordinary talent.

VIOLIN

Mrs. Ellen C. Place

The practical studies in the violin course include technical exercises, major and minor scales in all positions: studies by Gorden, Wohlfahrt, Kayser, Mazas, Kreutzer, Fiorillo: pieces and concertos by classical and modern composers.

ORGAN

Mrs. Kathryn Bliss Rogers

Students who are thoroughly proficient in piano-playing and who are good readers may obtain a fair command of the organ in two years.

In the first year Rink's *Organ School* is studied, and in the second year Mendelsshon's organ sonatas and Bach's fugues are introduced as soon as the pupil is sufficiently advanced. Dudley Buck's *Studies in Pedal Phrasing* are used in connection with classical organ compositions.

The rapidity with which the course is carried on depends entirely on the ability of the student.

THEORETICAL COURSES

Miss Alberta Crandall

Harmony

This course embraces the study of Harmony, Single and Double Counterpoint, Choral Preludes, Free and Strict Imitation, Canon, Fugue, Musical Form, and practical work in Composition. Chadwick's *Manual of Harmony* and Treatises on *Counerpoint and Fugue*, are the text-books used.

Theory of Music

The course in the Theory of Music embraces the fundamental principles of music and explains the laws of acoustics, musical rhythms, abbreviation and signs, embellishments, and musical form. The student is required to analyze song-forms, sonatas, vocal, and contrapuntal forms. The course may be completed in one year and a small fee is charged per quarter.

History of Music

The course in the History of Music covers the ground of development from the earliest known beginning and development of notation, polyphony, oratorio and opera, as well as the invention and improvement of instruments. Brief biographies of the important composers of the different periods are included in the course. The course is taught in classes, and is free to all students of the School of Music.

ADDITIONAL PRIVILEGES

Sight Playing and Ensemble Classes

To aid the students in the instrumental courses, classes in

sight playing and for ensemble work are organized for practice in the playing of duos, trios, and work for the pianoforte and stringed instruments; also recitals are given from time to time as an essential means of training for students in these courses.

These adjuncts to musical training are free, and all students in instrumental courses are required to attend them. Those who are prepared to take allotted parts in the orchestra may receive the benefit of the wekly practice of the college orchestra.

Chorus Practice

The Choral Union, the Glee Club, and the Treble Clef afford an opportunity for students to obtain practice in chorus singing.

TUITION

The tuition in the School of Music is estimated as per half-semester, or quarter, of nine weeks, half-hour lessons.

Pipe Organ, one lesson a week, one hour	$13.50
Pianoforte, two lessons a week	20.00
The same, one lesson a week	11.25
Stringed instruments, two lessons a week	20.50
The same, one lesson a week	11.25
Voice Culture, two half-hour lessons a week	20.50
The same, one half-hour lesson a week	11.25
Cornet, one lesson a week	9.00
Elementary Vocal Music, in classes	2.00
Theory of Music	1.00
Harmony, private	11.25
Harmony in class of three	5.50

Tuition is to be settled in advance at the beginning of each quarter. No reduction will be made to pupils who miss their lessons, except in the case of prolonged absence on account of sickness or other unavoidable circumstances.

CATALOGUE OF STUDENTS

COLLEGE

Senior Class

Mabel Florence Arbuthnot	Janesville
Ruth Maribel Babcock	Milton
Theodore Morrison Chang	Shanghai, China
Gerald Deane Hargis	Walworth
Etta Martha Hodge	Dodge Center, Minn.
Joe Ewing Johnson	Stone Fort, Ill.
Herbert Paul Kakuske	Janesville
Alice Lenore Kumlien	Milton
Leo Lu Lanphere	Milton
Myrtle Emma Lewis	Dodge Center, Minn.
Esther Lulu Loofboro	New Auburn
Dorothy Geraldine Maxson	Milton
Chester Davis Newman	Milton
Carroll Frank Oakley	Milton
Jessie Violet Post	Milton
James K. Shiba	Okaymaken, Japan

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Junior Class

Henry Chase Black	North Loup, Neb.
Rex Porter Bond	Garwin, Iowa
Ruth Evelyn Burdick	Milton
Jessie Sarah Rebecca Burnett	Milton
Howard Victor Fox	Milton
Hazel Irene Greatsinger	Beloit
Amie Catharine Greene	Milton
Paul Hurley Hemphill	Milton
Esther Vivian Hill	Welton, Iowa
Arthur Maxson Mills	Milton
Elma Corinne Mills	Battle Creek, Mich.
Doris Randolph	Milton
Albert Gerald Sayre	Milton
Leona Iola Sayre	North Loup, Neb.
Iva Marie Schrader	Milton Junction
Raymond H. Sholtz	Oneida, N. Y.
Harold Eugene Smith	Janesville

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Sophomore Class

Clyde Ellsworth Arrington	Milton
Lois Phoebe Atkinson	Milton
Corliss Archie Baker	Milton Junction
Ardis Lorena Bennett	Milton
Constance Aileen Bennett	Milton
Laura Evelyn Bond	Farina, Ill.
Beulah Bernice Coon	Battle Creek, Mich.
Nema Fern Cruzan	North Loup, Neb.
Milton Daland Davis	Shiloh, N. J.
Myrl Nelson Davis	Milton
Pauline Schalk Davis	Fouke, Ark.
Lester Newton Dunwiddie	Mineral Point
Claude Skaggs Grant	Milton
Chloe Van Horn Hemphill	Milton
Margaret Parker Howard	Nortonville, Kan.
Gladys Celina Hulett	Bolivar, N. Y.
George Wilton Hutchins	North Loup, Neb.
May Minnie Johnson	New Auburn
Helen Mertilla Jordan	Milton
Gerald Stennett Kennedy	Jackson Center, Ohio
Helen Muriel Loofbourrow	New Auburn
Dorothy May Maxson	Battle Creek, Mich.
Harold Woodruff Mikkelsen	Milton
Eunice Pauline Rood	North Loup, Neb.
Holly Richard Sheard	Milton Junction
Allison Edward Skaggs	Plainfield, N. J.
Barlow Spoon	Janesville
Lorraine Stephen Summers	Avalon
Edna May Sunby	Milton
Aletha Ruth Thorngate	North Loup, Neb.
Ezra Wayne Vincent	Chippewa Falls

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Freshman Class

Olive Amelia Agnew	Milton Junction
Margaret Lucile Babcock	Milton
Herbert Elmer Barnes	Milton
Harriet Emmeline Belland	Walworth
Charles William Berglund	Superior
Elmer McKinley Bingham	Milton
Wilhelmina Isabelle Botsford	Janesville

Myrtle S. Branch	White Cloud, Mich.
Frances Mary Buss	Janesville
Theron Irving Cartwright	New Auburn
Douglas Wellesley Cockfield	Janesville
Albert Green Combs	North Loup, Neb.
Raymond Wardner Crosley	Milton
Lillian Frances Cullen	Janesville
Dena Luella Davis	North Loup, Neb.
Otto Olaf Dillner	Superior
Gladys Naydene Edwards	Meadville, Mo.
Glee Lenore Ellis	Dodge Center, Minn.
Cecil Richard Fetherston	Milton
Frank Clayton Green	Farina, Ill.
James Paul Green	Farina, Ill.
Rollin Thorburn Gridley	Janesville
Carroll Leigh Hill	Welton, Iowa
Russell Rood Hill	North Loup, Neb.
Wanda Viva Hurley	North Loup, Neb.
Chester Robert Jones	Jackson Center, Ohio
Charles Stevenson Kneeland	Battle Creek, Mich.
Sewell Voke Lehman	Dodge Center, Minn.
Arden Luzerne Lewis	Dodge Center, Minn.
Beulah Marguerite Lewis	Stone Fort, Ill.
Edwin Iven Lloyd	Janesville
James Maxfield	Janesville
Katherine Eleanor Maxson	Milton
Velma Leota Maxson	Battle Creek, Mich.
Robert John McCubbin	Milton Junction
Edna Beulah McKibben	Garwin, Iowa
Roland Kenneth Meyer	Janesville
Stuart Henry Paul	Janesville
Oma Ioan Pierce	Fouke, Ark.
Elmer Hurley Sanford	Welton, Iowa
Rolland Moses Sayre	Milton
Donna Gwynne Schlagenhauf	Waterloo
James Victor Scobie	Janesville
Lloyd Donald Seager	Bridgeton, N. J.
Lyal Berton Severance	Milton
Lowell Knight Shrader	Garwin, Iowa
Arlyne Bernice Stockman	Milton Junction
Charles Frederick Sutton	Battle Creek, Mich.
George Landis Terwilliger	Milton
Ava Lillian Van Horn	Garwin, Iowa
LaClede Frink Walters	Edgerton
Leila Gleneta Williams	Edgerton

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Special Students

Robert Langworthy Burdick	Milton
Ruth Evaline Burdick	Milton
Merlin J. Chadsey	Milton
Alexander Kenworthy Daland	Milton
Roderick Whitford Davis	Milton
Lela Verne Fuller	Dalton
Harvey Edward Holmes	Milton
Lester George Hurley	Welton, Iowa
Willard Theodore James	Janesville
Howard George McNitt	Milton
Merritt Darwin Van Horn	Welton, Iowa
Paul Smith Van Horn	Dodge Center, Minn.

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SCHOOL OF MUSIC

Harmony

Nema Fern Cruzan	North Loup, Neb.
Esther Vivian Hill	Welton, Iowa
Gladys Celina Hulett	Bolivar, N. Y.
Dorothy Geraldine Maxson	Milton
Katherine Eleanor Maxson	Milton
Laura McBride	Milton
Joyce McElroy	Pardeeville
Doris Randolph	Milton
Arlyne Bernice Stockman	Milton Junction

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Pianoforte

Albert Green Combs	North Loup, Neb.
Nema Fern Cruzan	North Loup, Neb.
Gladys Naydene Edwards	Meadville, Mo.
Edward M. Ellis	Milton
Myrtle Violet Fox	Milton
Martha Franke	Milton
Chloe Van Horn Hemphill	Milton
Esther Vivian Hill	Welton, Iowa
Winnie May Hudson	Milton
Alice Lenore Kumlien	Milton
Marian Lee	Milton
Esther Lulu Loofboro	New Auburn
Dorothy Geraldine Maxson	Milton
Katherine Eleanor Maxson	Milton

Joyce McElroy	Pardeeville
Elma Corinne Mills	Battle Creek, Mich.
Wanda Olsted	Milton
Ruth Esther Paul	Milton
Oma Ioan Pierce	Fouke, Ark.
Jessie Violet Post	Milton
Doris Randolph	Milton
Harold Romaine Rehberg	Janesville
Edna Mae Rybold	Janesville
Elizabeth Saunders	Milton
Willard Shadel	Milton Junction
Rose Stillman	Milton
Arlyne Bernice Stockman	Milton Junction
Harriet Ginerva Terwilliger	Milton
Dorothy Euphemia Whitford	Milton

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Voice

Elmer McKinley Bingham	Milton
Flavia Blakely	Janesville
Myrtle S. Branch	White Cloud, Mich.
Susie Burdick	Milton Junction
Nema Fern Cruzan	North Loup, Neb.
Frank Clayton Green	Farina, Ill.
James Paul Green	Farina, Ill.
Alma Gulbrandsen	Milton
Carroll Leigh Hill	Welton, Iowa
Esther Vivian Hill	Welton, Iowa
Marian Howard Hargis	Walworth
Gladys Celina Hulett	Bolivar, N. Y.
Mrs. Edward Hull	Milton Junction
Dorothy Geraldine Maxson	Milton
Katherine Eleanor Maxson	Milton
Laura McBride	Milton
Edna Beulah McKibben	Garwin, Iowa
Jessie Violet Post	Milton
Marion Schaller	Janesville
James Victor Scobie	Janesville
Lloyd Donald Seager	Bridgeton, N. J.
Holly Richard Sheard	Milton Junction
James K. Shiba	Okaymaken, Japan
Charles Frederick Sutton	Battle Creek, Mich.
George Landis Terwilliger	Milton
Ezra Wayne Vincent	Chippewa Falls

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Organ

Audree Clair Babcock	Garwin, Iowa
Wanda Olsted	Milton
Jessie Violet Post	Milton
Mrs. G. H. Warren	Milton

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Violin

Genevieve Ayers	Milton
Lillian B. Babcock	Milton
Ardis Lorena Bennett	Milton
Ruth Evelyn Burdick	Milton
William Stillman Burdick	Milton
Albert Green Combs	North Loup, Neb.
Frances A. Ellis	Milton
Rosamond Hintz	Milton
Mrs. Grace E. Persons	Lima Center
Katherine Persons	Lima Center
Marion F. Schaller	Janesville
Howard S. Stout	Milton Junction
Ava Lillian Van Horn	Garwin, Iowa

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Elementary Singing Class

Herbert E. Barnes	Velma L. Maxson
Elmer M. Bingham	Oma I. Pierce
Albert G. Combs	Elmer H. Sanford
Raymond W. Crosley	Leona I. Sayre
Freda Einerson	Merton Sayre
Frank C. Green	Donna G. Schlagenhauf
J. Paul Green	Pauline Strassburg
Leona Gregoire	Charles F. Sutton
Winnie May Hudson	George L. Terwilliger
Lester G. Hurley	Ava L. Van Horn
Chester R. Jones	Ezra W. Vincent
Beulah M. Lewis	Grace Waterman
Fern Maxson	

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Glee Club

First Tenors:	Second Tenors:
Russell R. Hill	Clyde E. Arrington
Joe E. Johnson	Henry C. Black
Herbert P. Kakuske	Carroll L. Hill
Harold W. Mikkelsen	Charles F. Sutton
Barlow Spoon	Lorraine S. Summers

First Basses:

Milton D. Davis
Chester D. Newman
H. Richard Sheard
James K. Shiba
Leman H. Stringer

Second Basses:

Corliss A. Baker
Walter W. Holliday
George W. Hutchins
James V. Scobie
Lloyd D. Seager

Treble Clef

First Sopranos:

Audree C. Babcock
Constance A. Bennett
Alberta Crandall
Nema F. Cruzan
Dorothy G. Maxson
Laura McBride

Second Sopranos:

Ardis L. Bennett
Ruth E. Burdick
Beulah B. Coon
Helen M. Jordan
Hazel I. Greatsinger
Chloe Van Horn Hemphill
A. Lenore Kumlien

First Altos:

Laura E. Bond
Elma C. Mills
Jessie V. Post
Doris Randolph
Edna M. Sunby
L. Gleneta Williams

Second Altos:

Glee L. Ellis
Gladys C. Hulett
Amey D. Van Horn
Myrtle E. Lewis

Orchestra

First Violins:

Doris Randolph, Prin.
Ardis L. Bennett
Arlene Borden
Ralph A. Buell
Myrtle V. Fox
Marian Howard Hargis
Rolland H. Maxson
Lorraine S. Summers

Second Violins:

Dorothy G. Maxson, Prin.
Genevieve Ayers
Audree C. Babcock
Lillian B. Babcock
Ruth E. Burdick
Albert G. Combs
Elma C. Mills

Violas:

Dr. George W. Post, Prin.
Alberta Crandall
Amey Van Horn

Violoncellos:

Constance A. Bennett, Prin.
Margaret L. Babcock
Truman G. Lippincott
Mrs. H. E. Thomas

Bass Viols:

Beth A. Bingham, Prin.
Edna B. McKibben
Anna E. Post
Rose Stillman

Flutes:

William B. Maxson
Neal D. Mills

Clarinets:
Merlin J. Chadsey
Harvey E. Holmes

Saxophone:
Ruth M. Babcock

Bassoon:
Carroll F. Oakley

Horns:
Milton D. Davis
Arden L. Lewis

Cornets:
Clyde E. Arrington
Joe E. Johnson
Chester D. Newman

Trombones:
Howard V. Fox
Charles S. Maxson
Lowell K. Shrader
L. Beryl Whitford

Drums:
Lester N. Dunwiddie

Timpani:
William D. Burdick

Piano:
Katherine E. Maxson
Jessie V. Post

SUMMARY OF THE CATALOGUE OF STUDENTS

College

Senior Class	16
Junior Class	17
Sophomore Class	31
Freshman Class	52
Special Students	12
Total	128

School of Music

Harmony	9
Pianoforte	29
Voice Culture	26
Organ	4
Violin	13
Elementary Singing Class	25
Glee Club	20
Treble Clef	23
Orchestra	45
Total in School of Music counted once	124
Total in School of Music not in college	54
	182

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